

APR 30 2003

U.S. PATENT & TRADEMARK OFFICE

FIG. 1

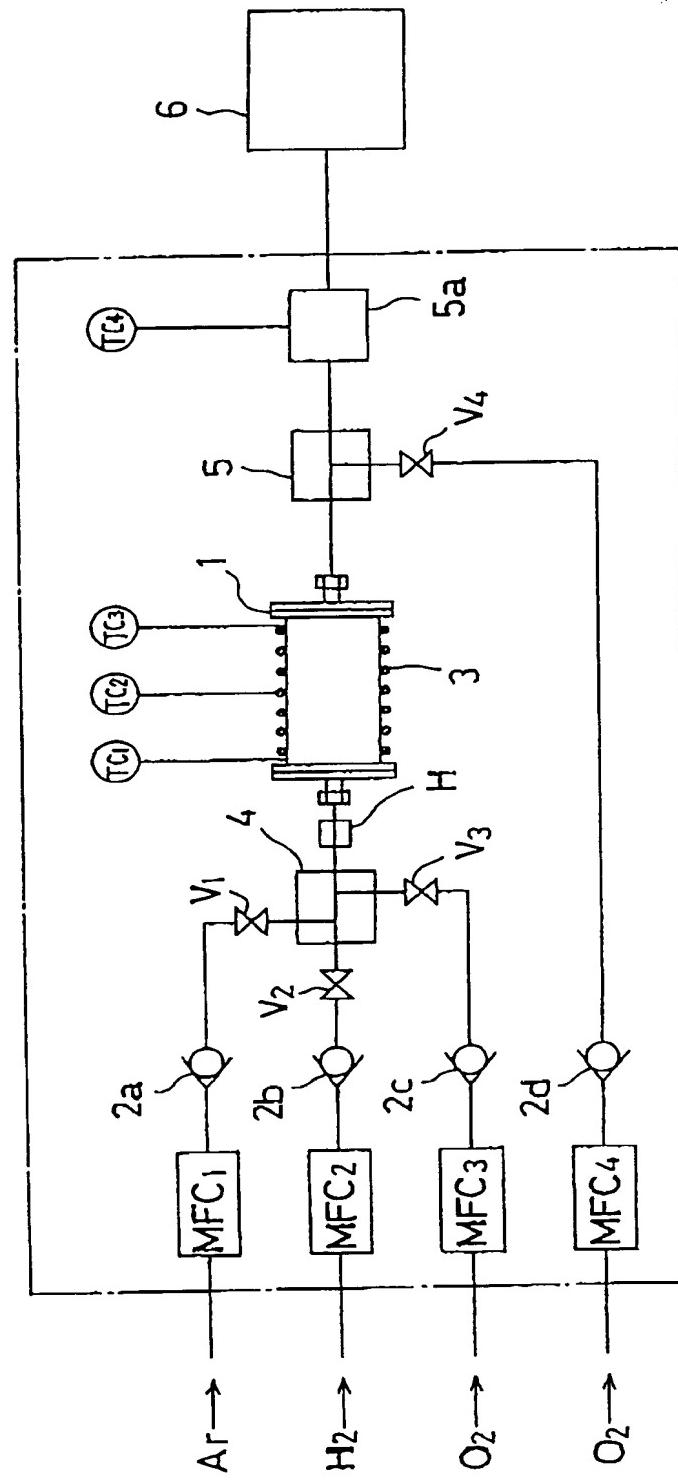




FIG. 2

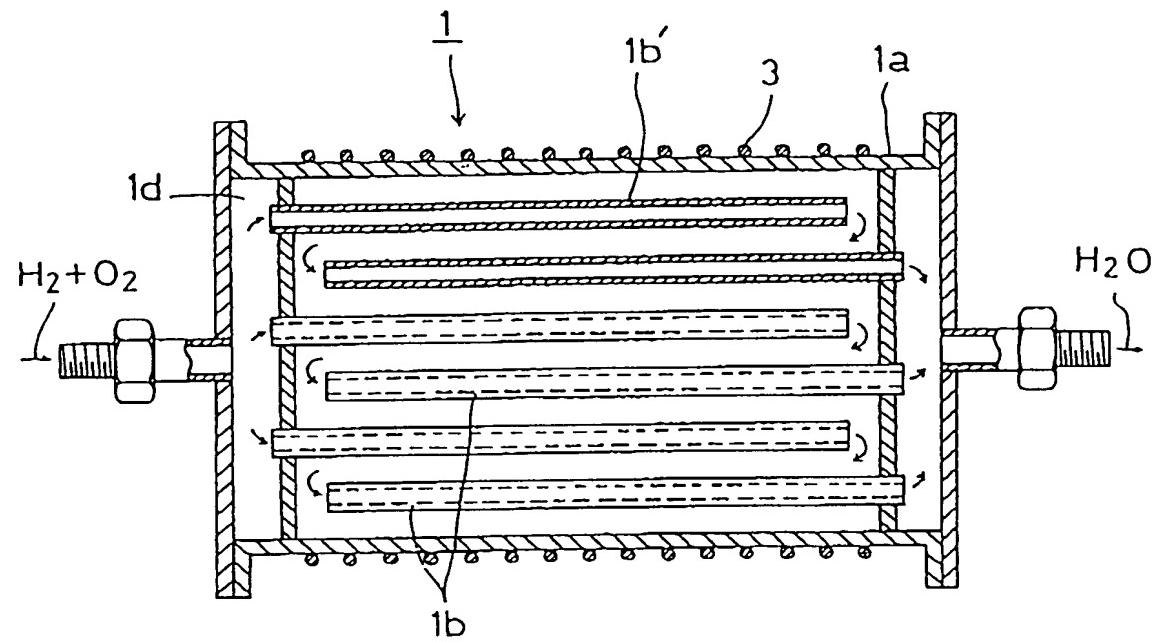


FIG. 3

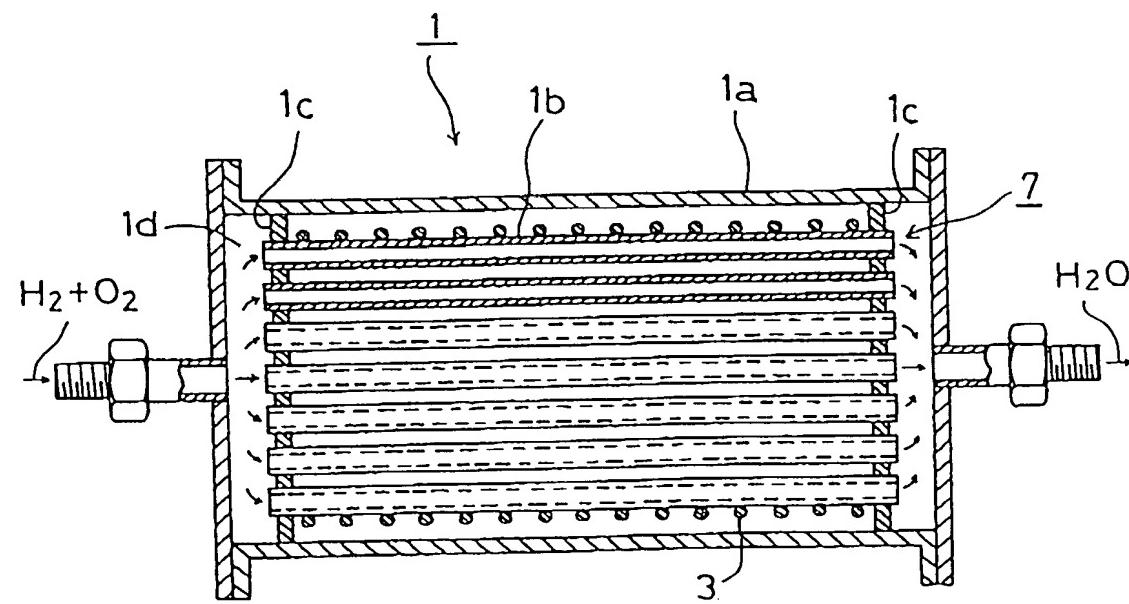




FIG. 4

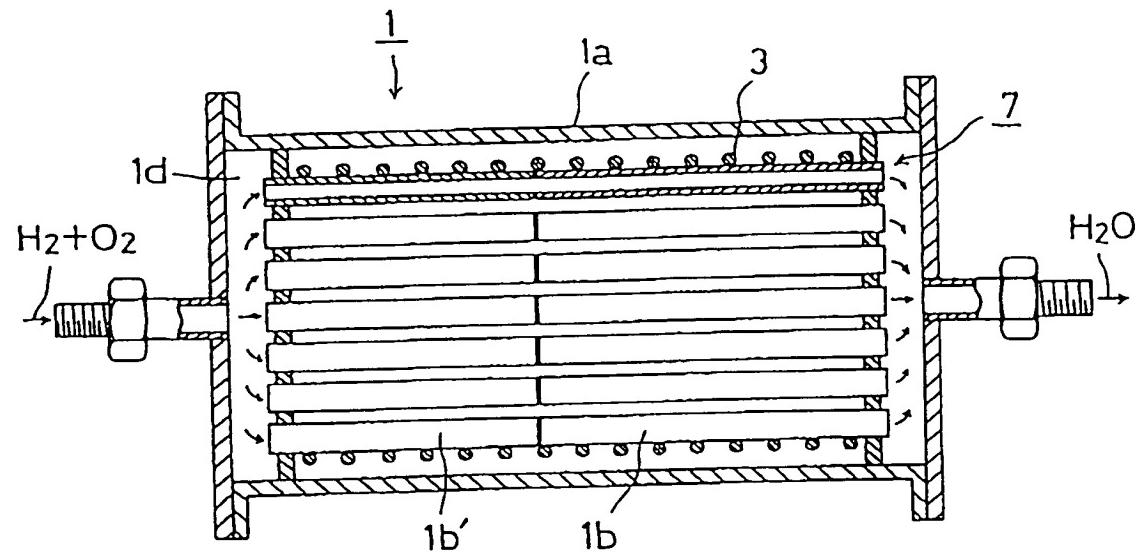


FIG. 5

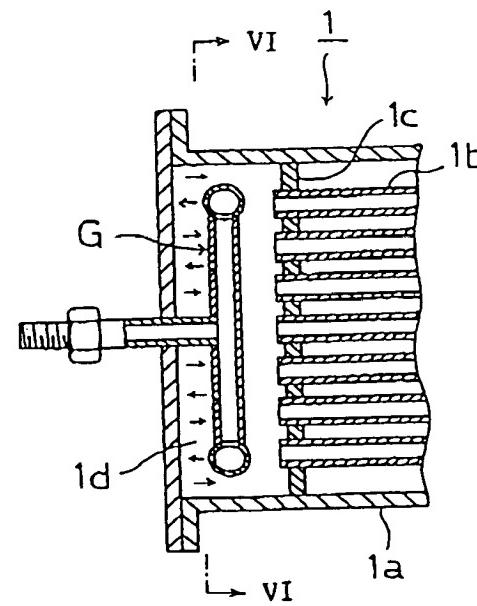




FIG. 6

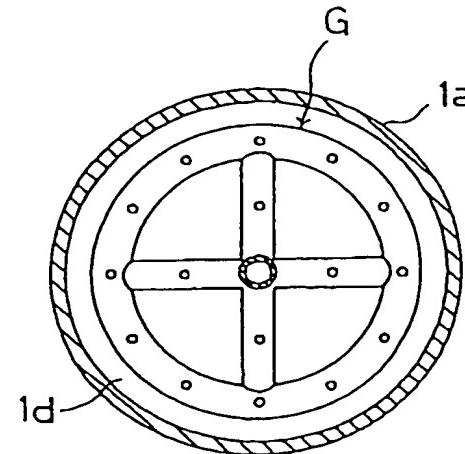


FIG. 7

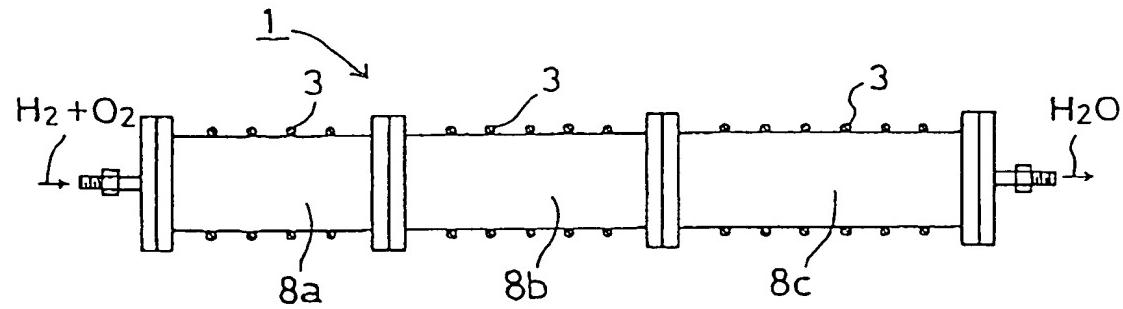


FIG. 8

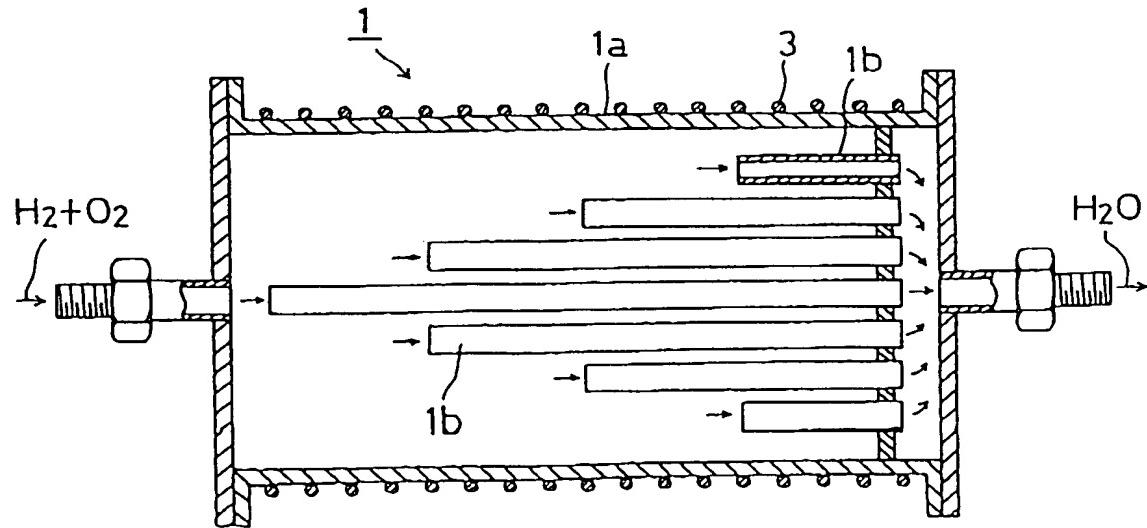




FIG. 9

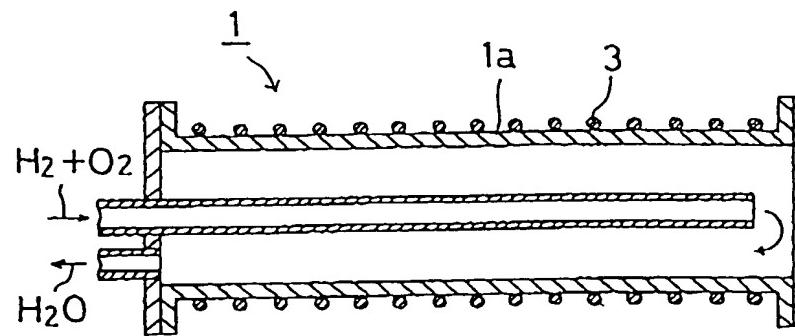


FIG. 10

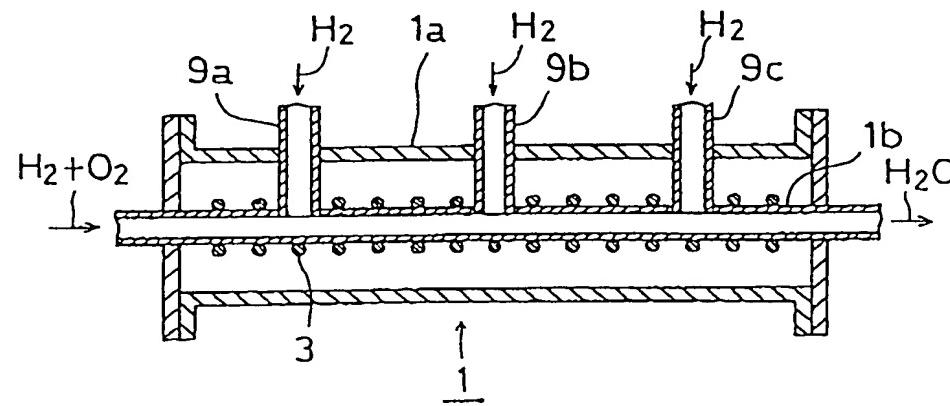


FIG. 11

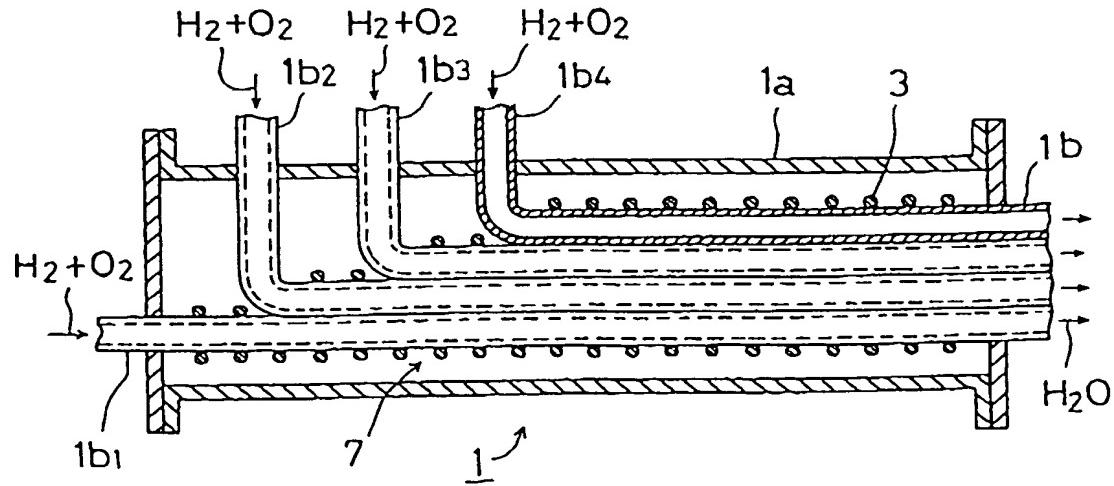




FIG. 12

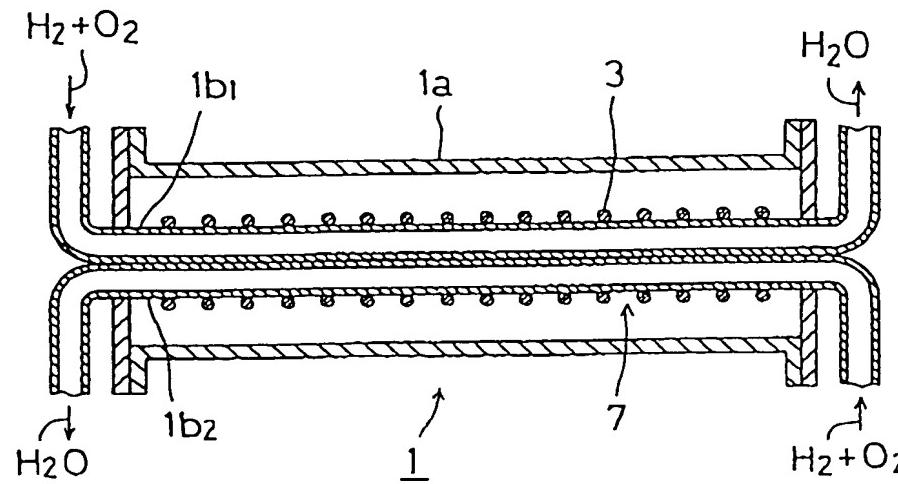


FIG. 13

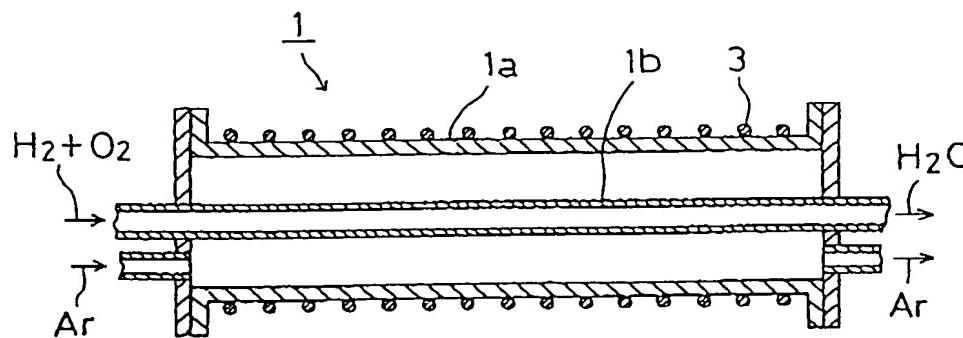




FIG. 14

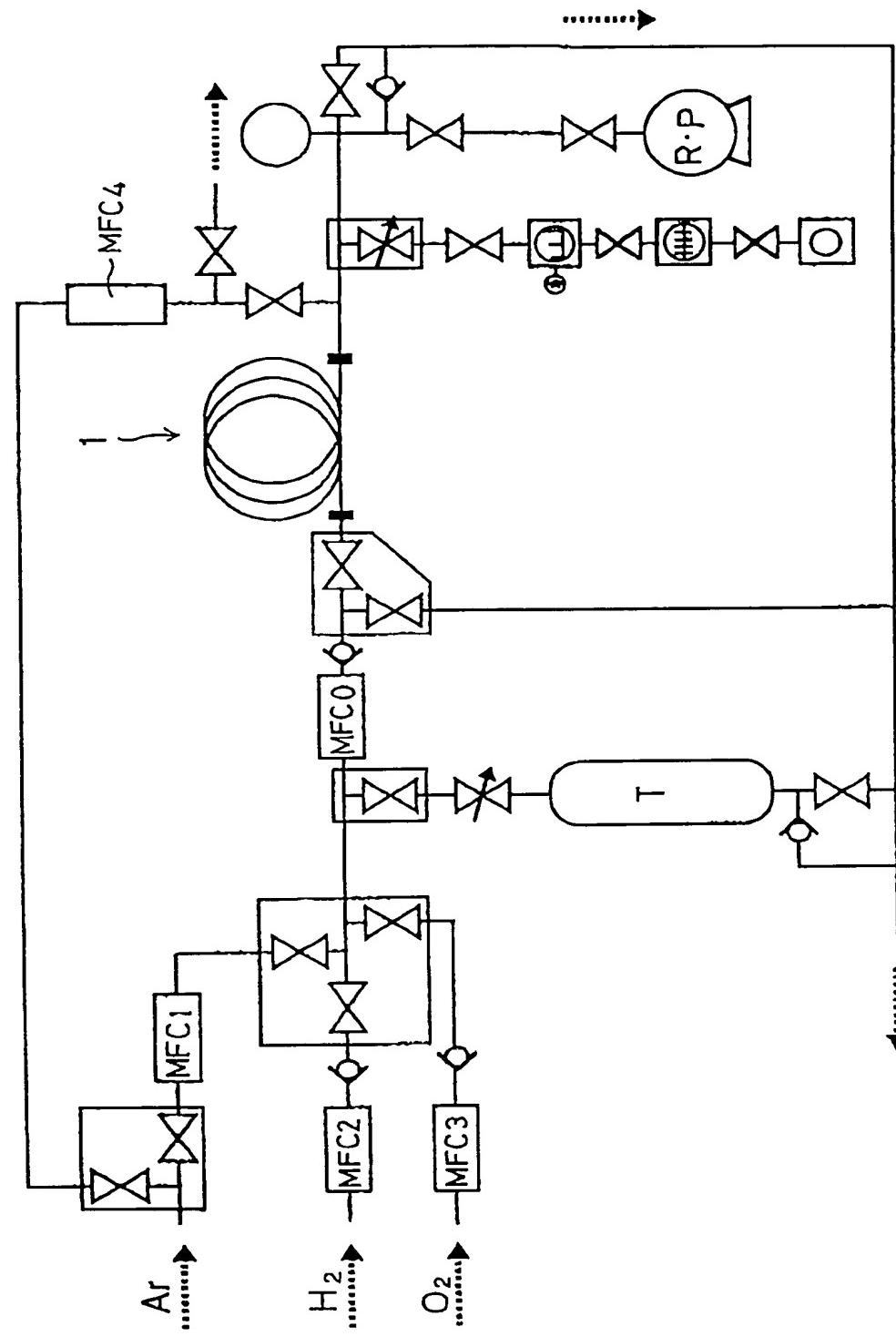




FIG. 15

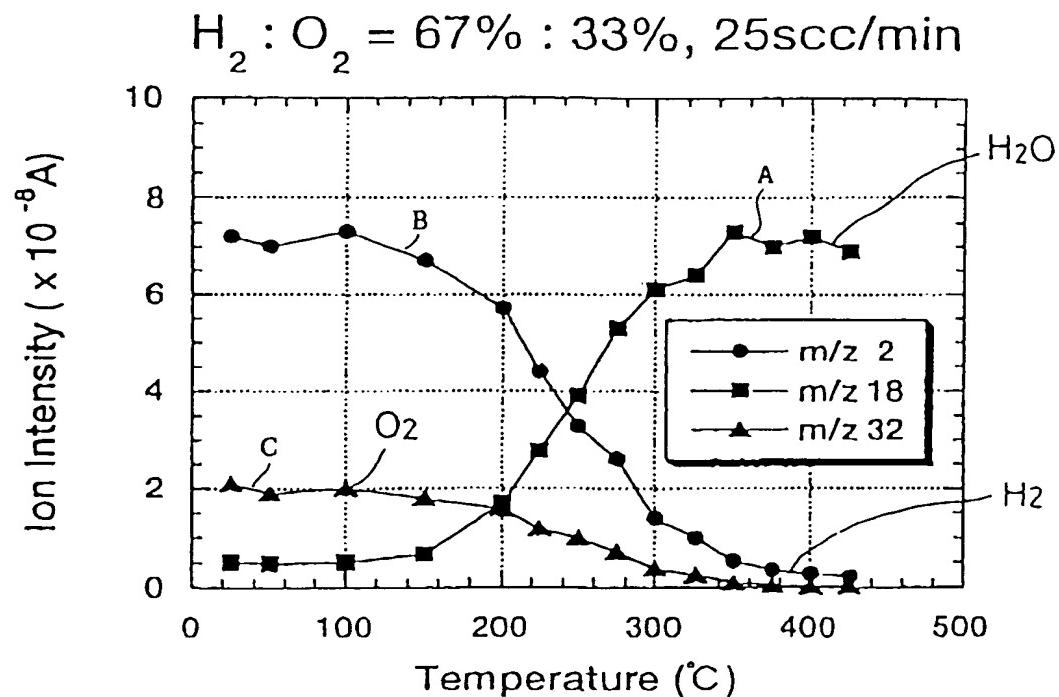


FIG. 16

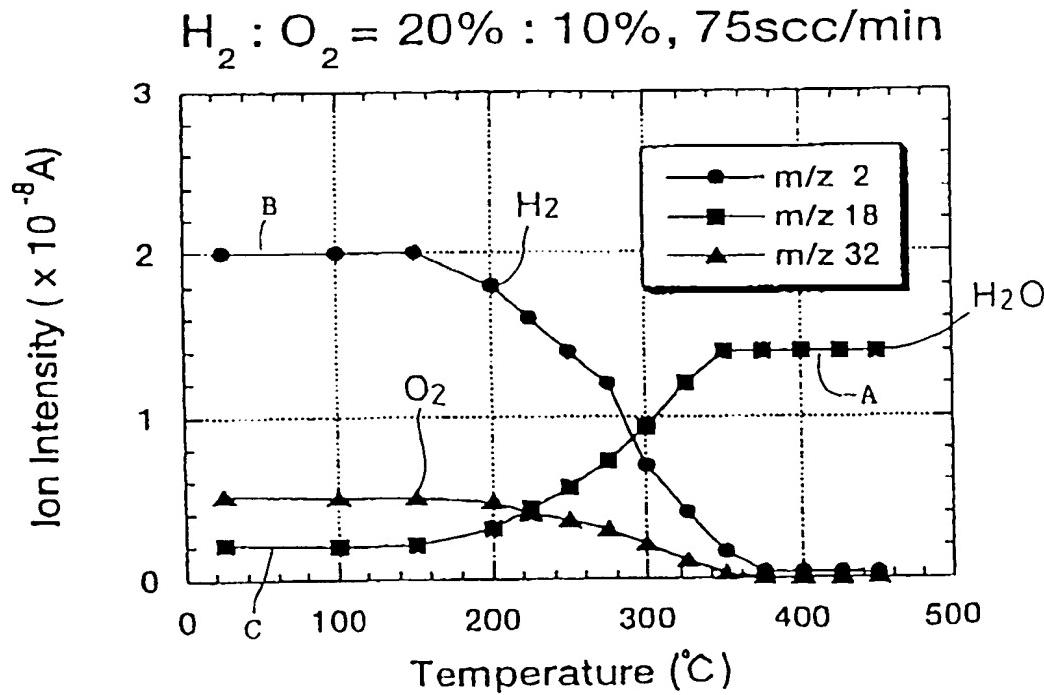




FIG. 17

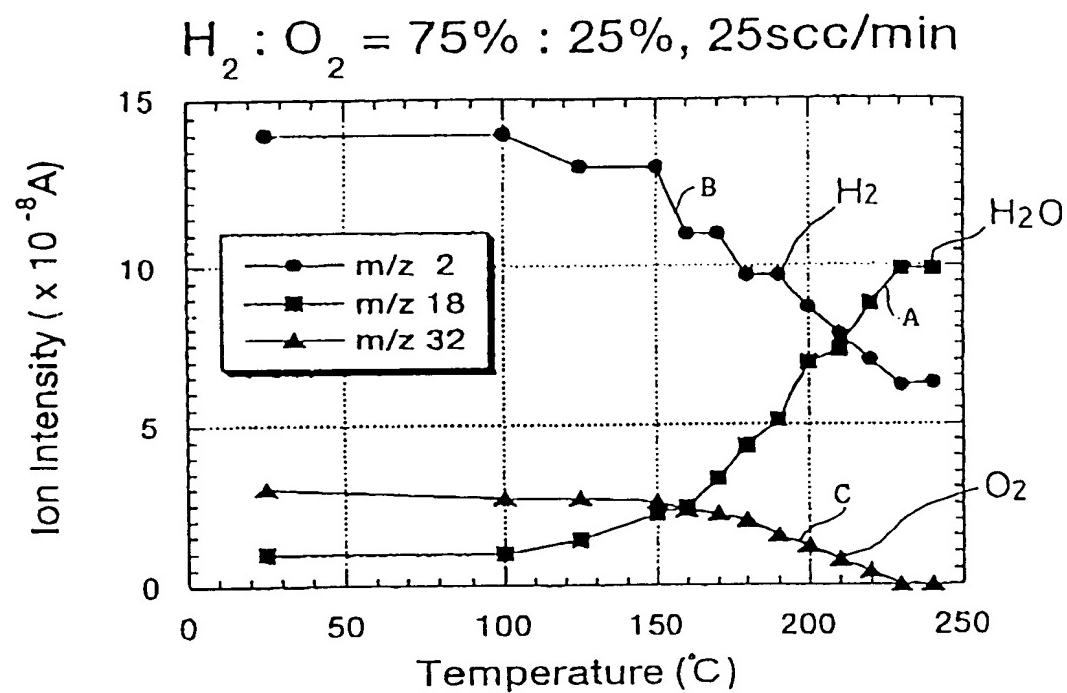


FIG. 18

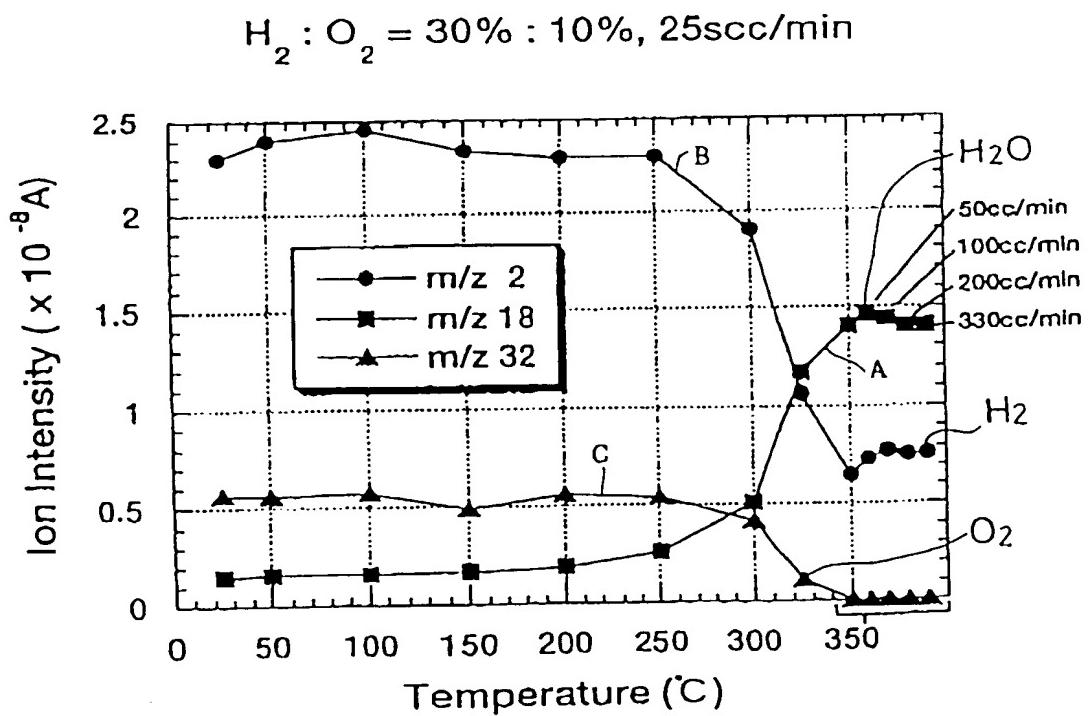




FIG. 19

Ni Tube (1/4 inch x 2m), 500°C

$H_2 : O_2 = 67\% : 33\%$

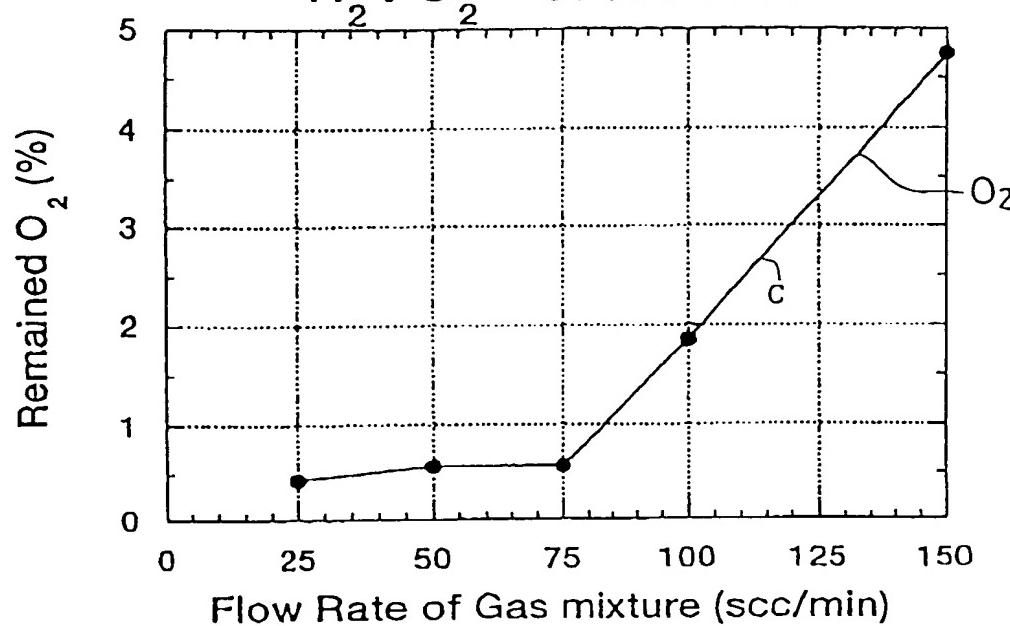


FIG. 20

Ni Filter

$H_2 : O_2 = 67\% : 33\%$ , 25scc/min

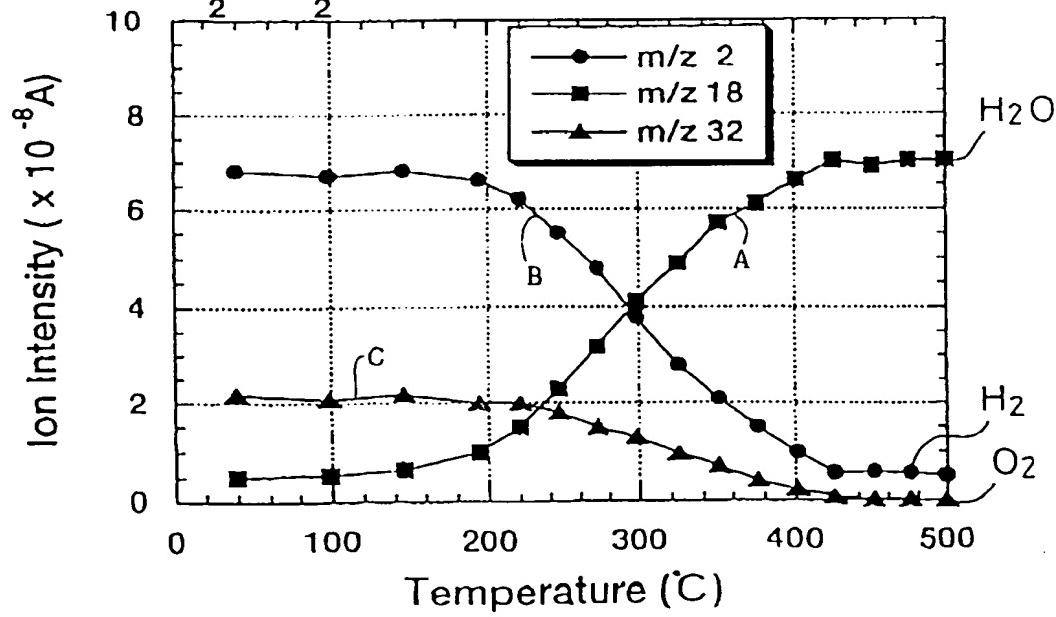




FIG. 21

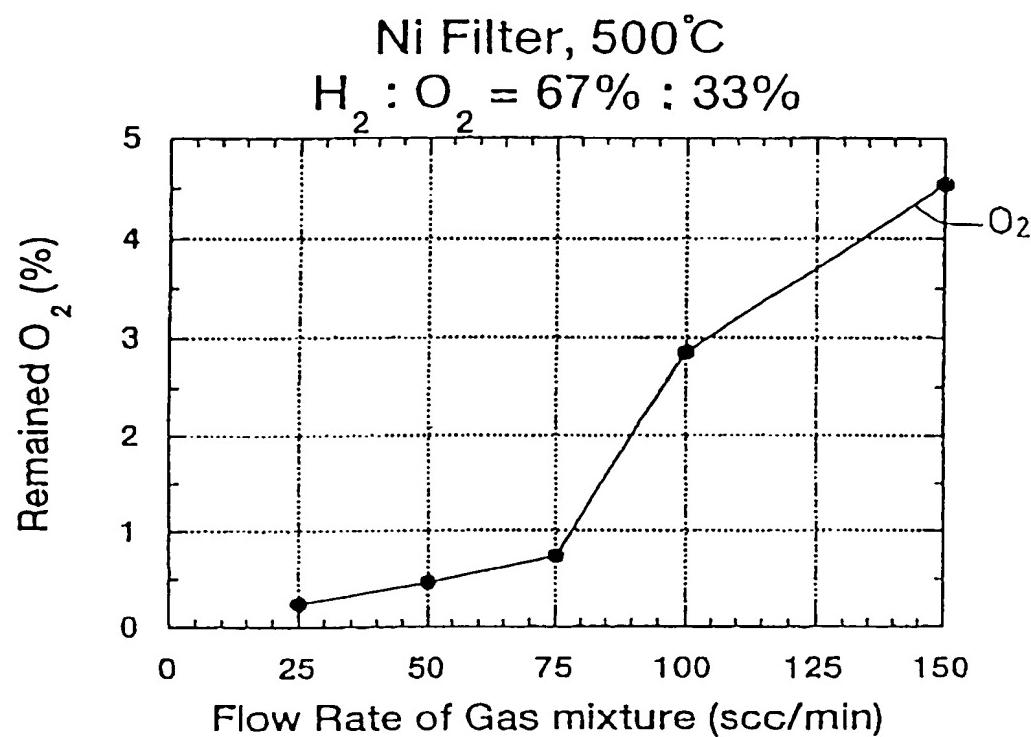




FIG. 22

Ni Ribbon ( $t\ 0.3 \times 20 \times 1000\text{mm}$ )  
 $\text{H}_2 : \text{O}_2 = 67\% : 33\%, 25\text{scc/min}$

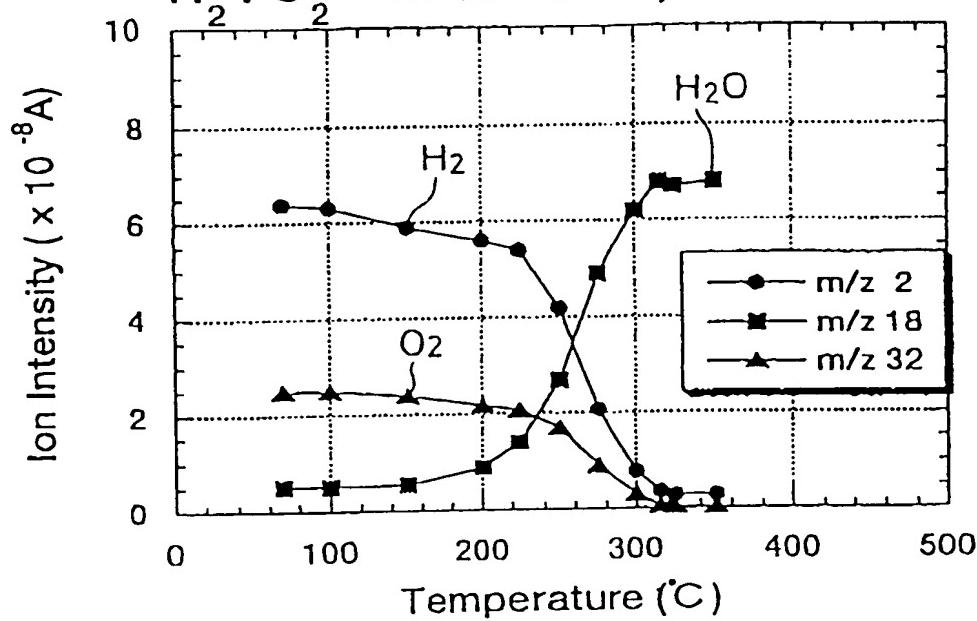




FIG. 23

Ni Ribbon ( $t = 0.3 \times 20 \times 1000\text{mm}$ ),  $500^\circ\text{C}$   
 $\text{H}_2 : \text{O}_2 = 67\% : 33\%$

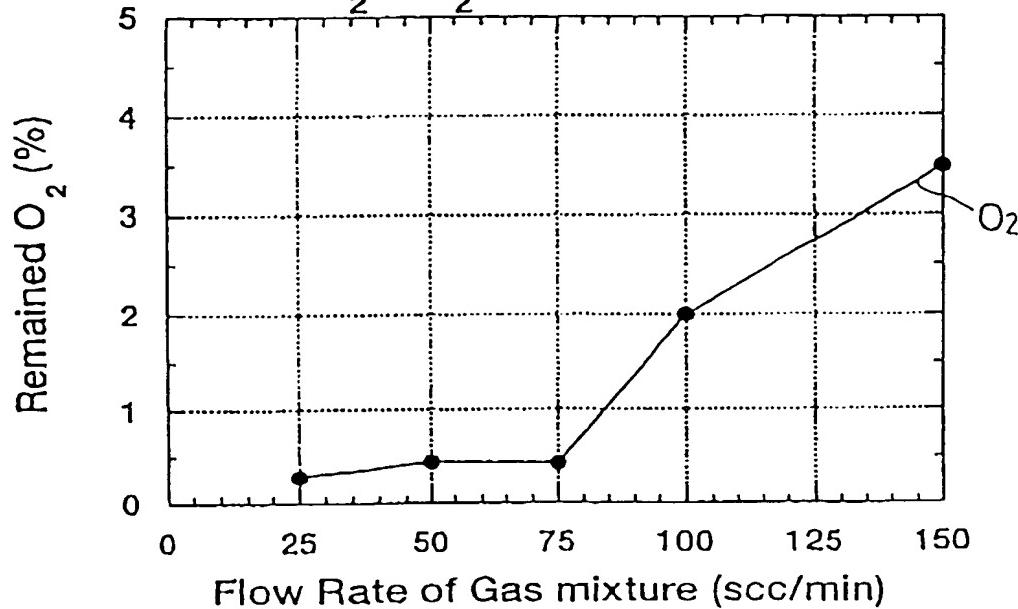


FIG. 24

$500^\circ\text{C}, 25\text{scc/min}$   
RESPONSIVENESS (AFTER STOP OF GAS SUPPLY)

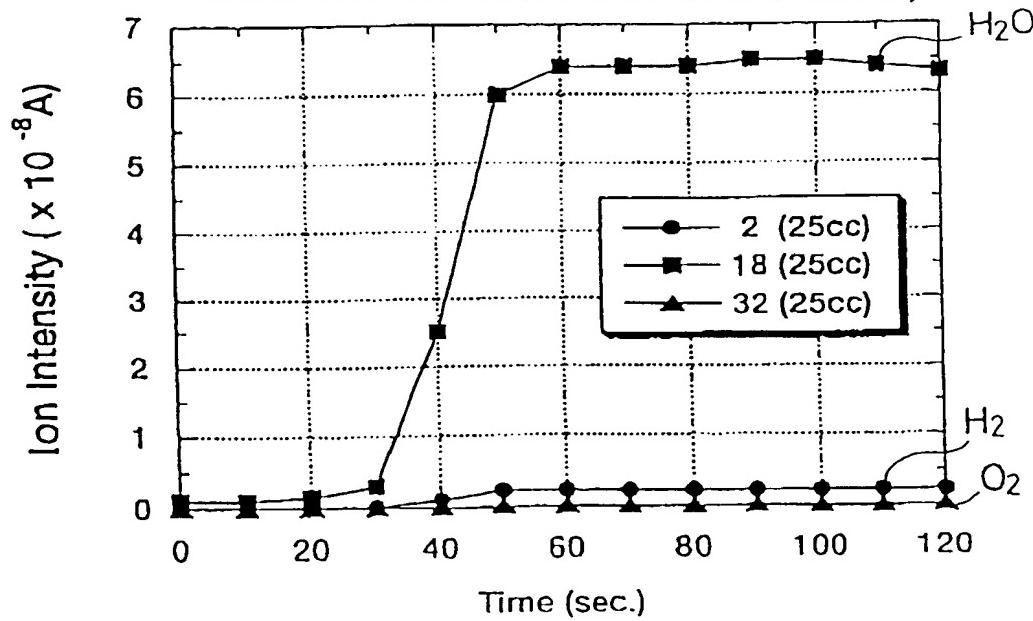




FIG. 25

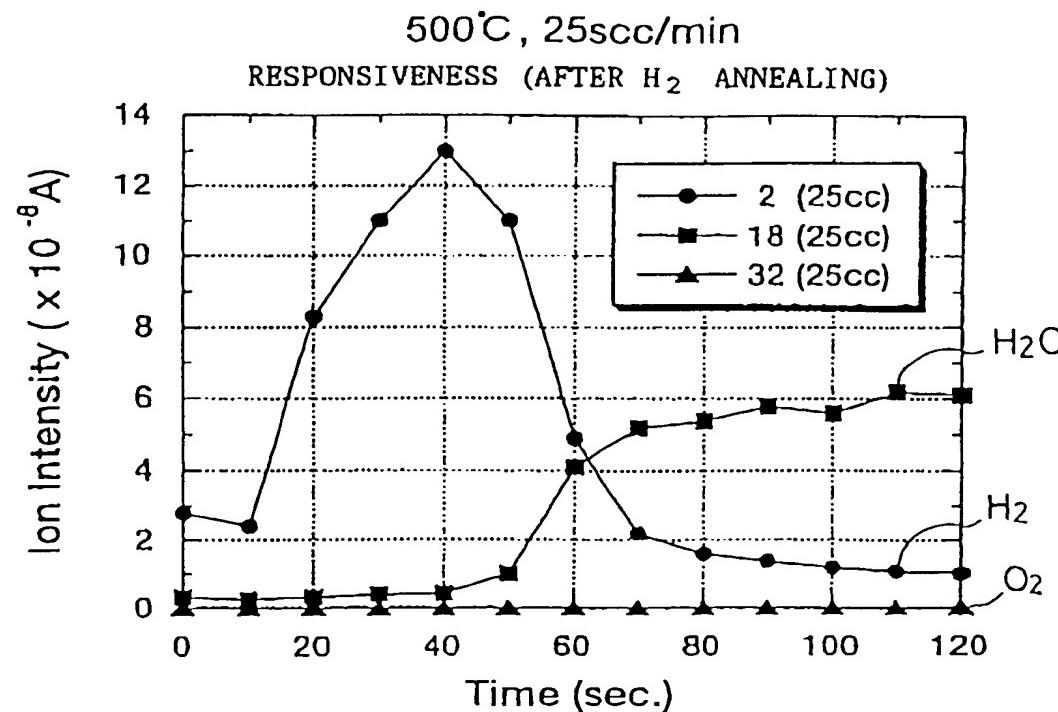


FIG. 26

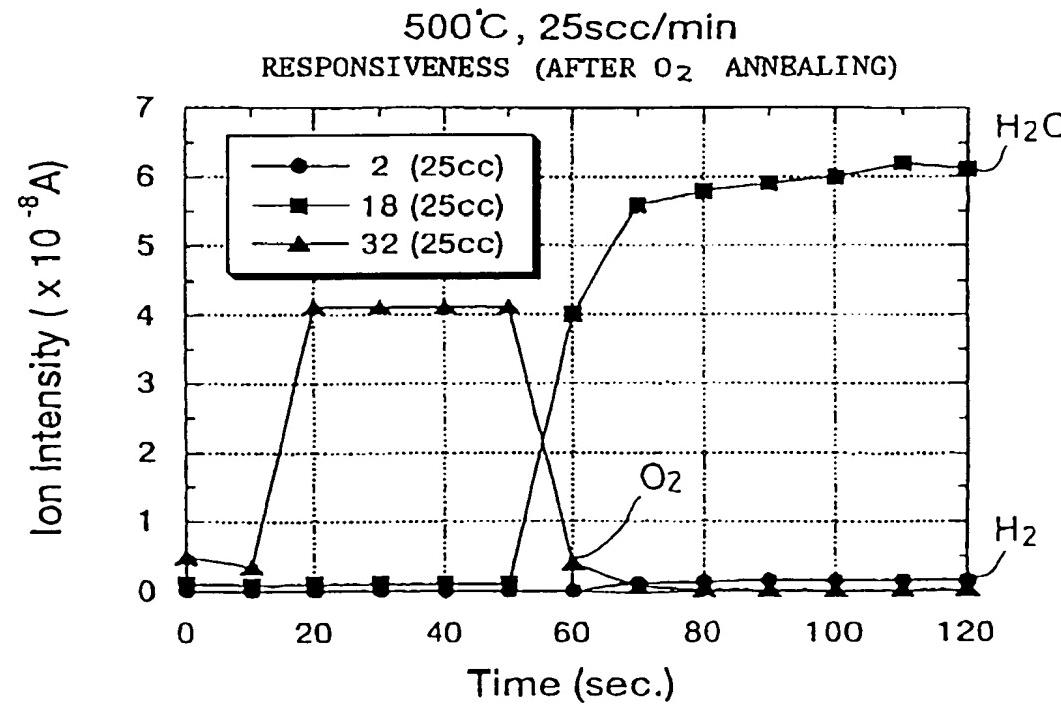




FIG. 27

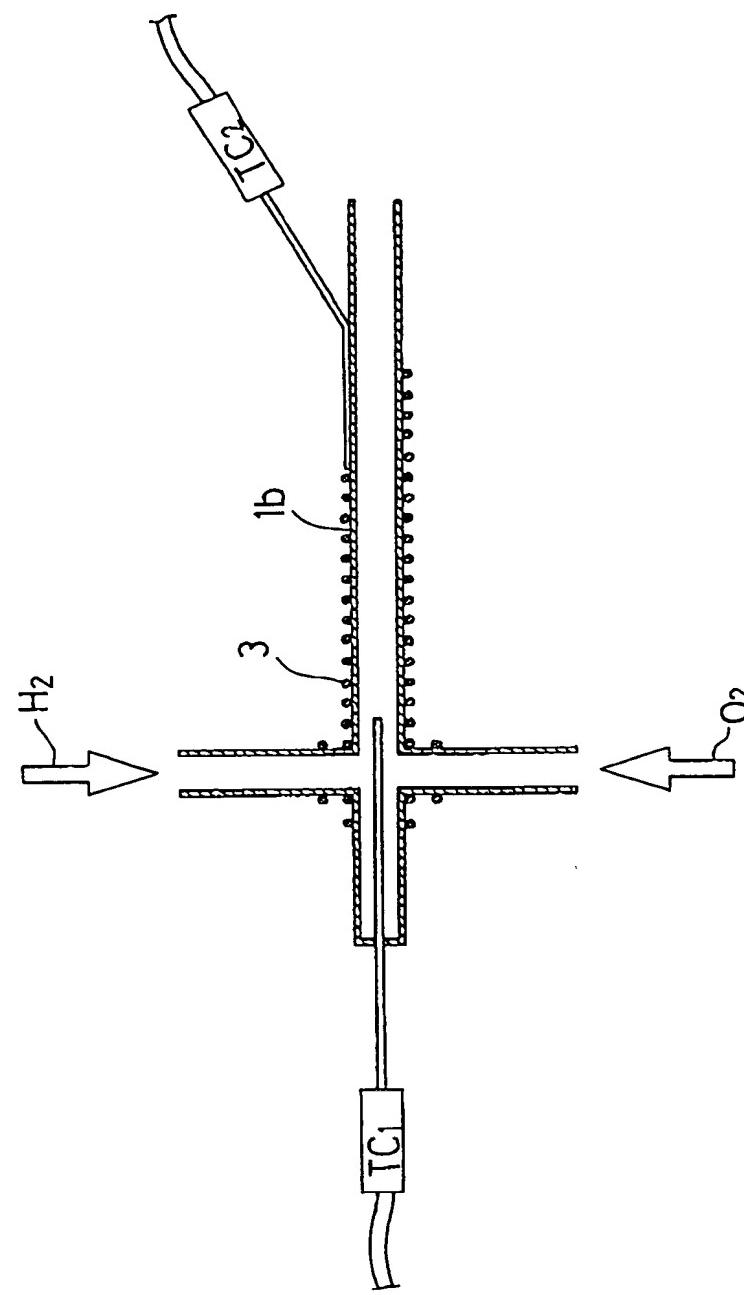




FIG. 28

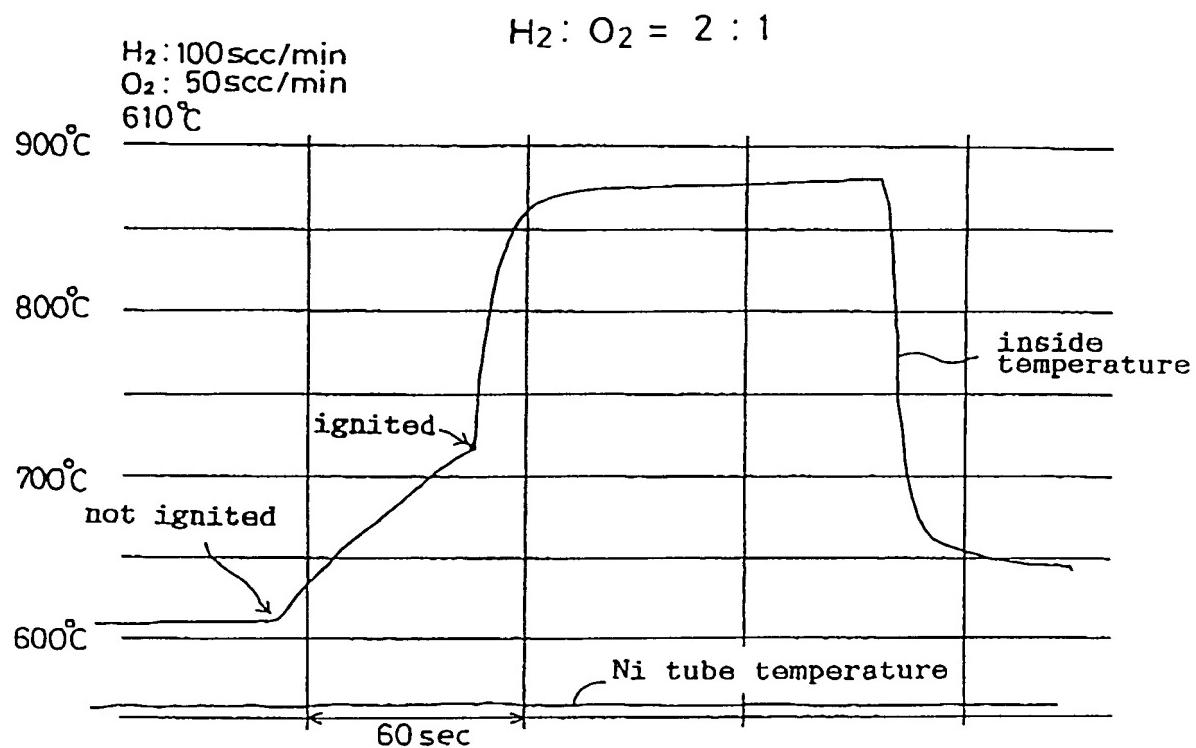




FIG. 29

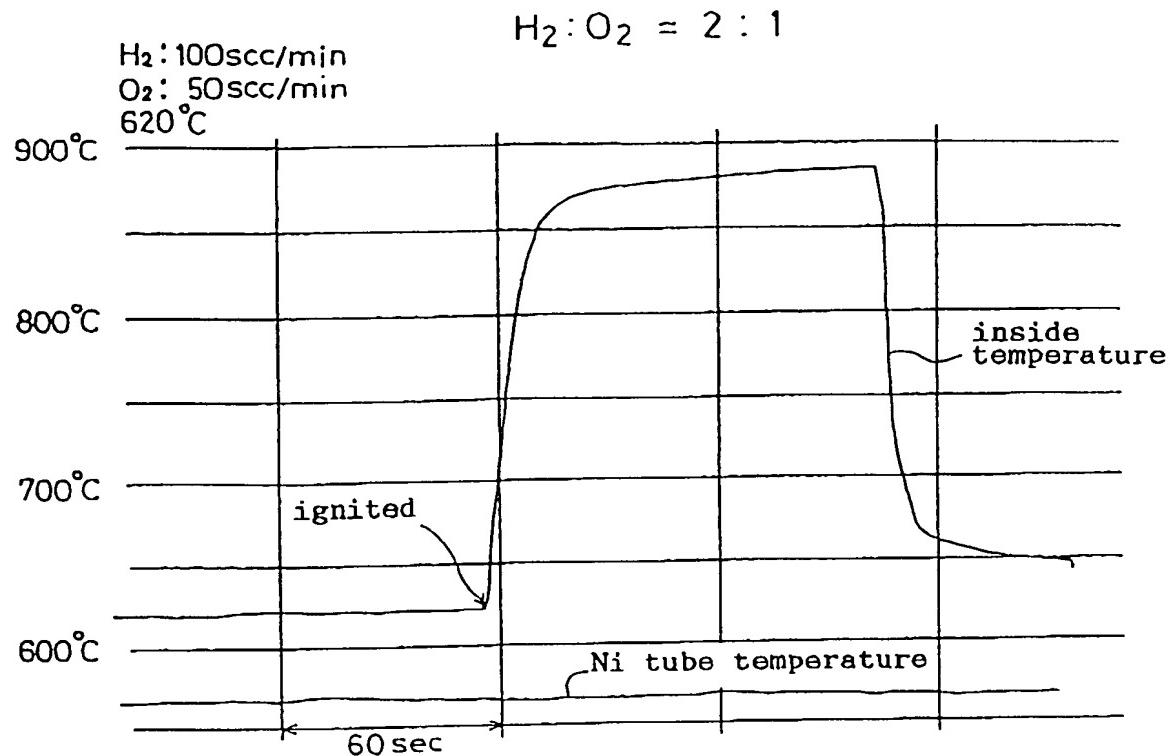


FIG. 30

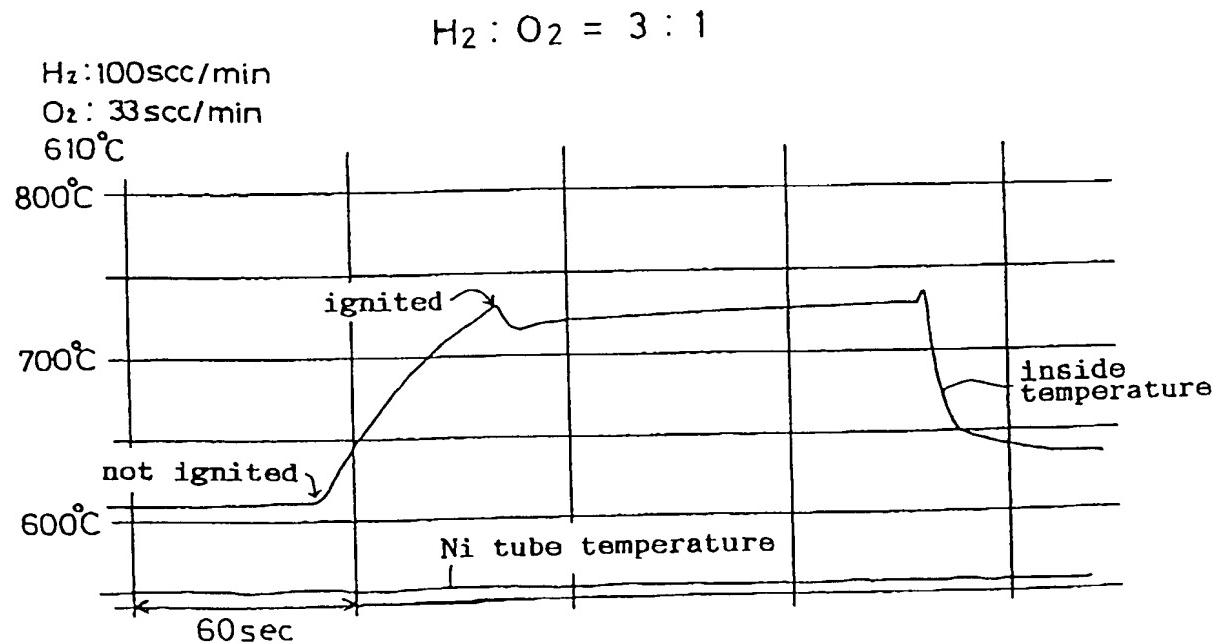




FIG. 31

$H_2 : 100 \text{ scc/min}$   
 $O_2 : 33 \text{ scc/min}$   
 $620^\circ\text{C}$

$H_2 : O_2 = 3 : 1$

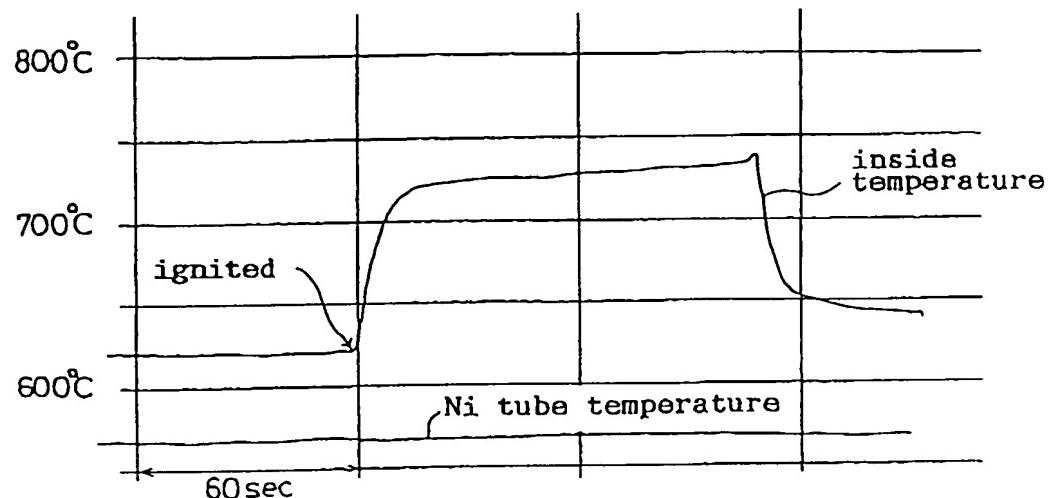




FIG. 32

$H_2 : O_2 = 4 : 3$

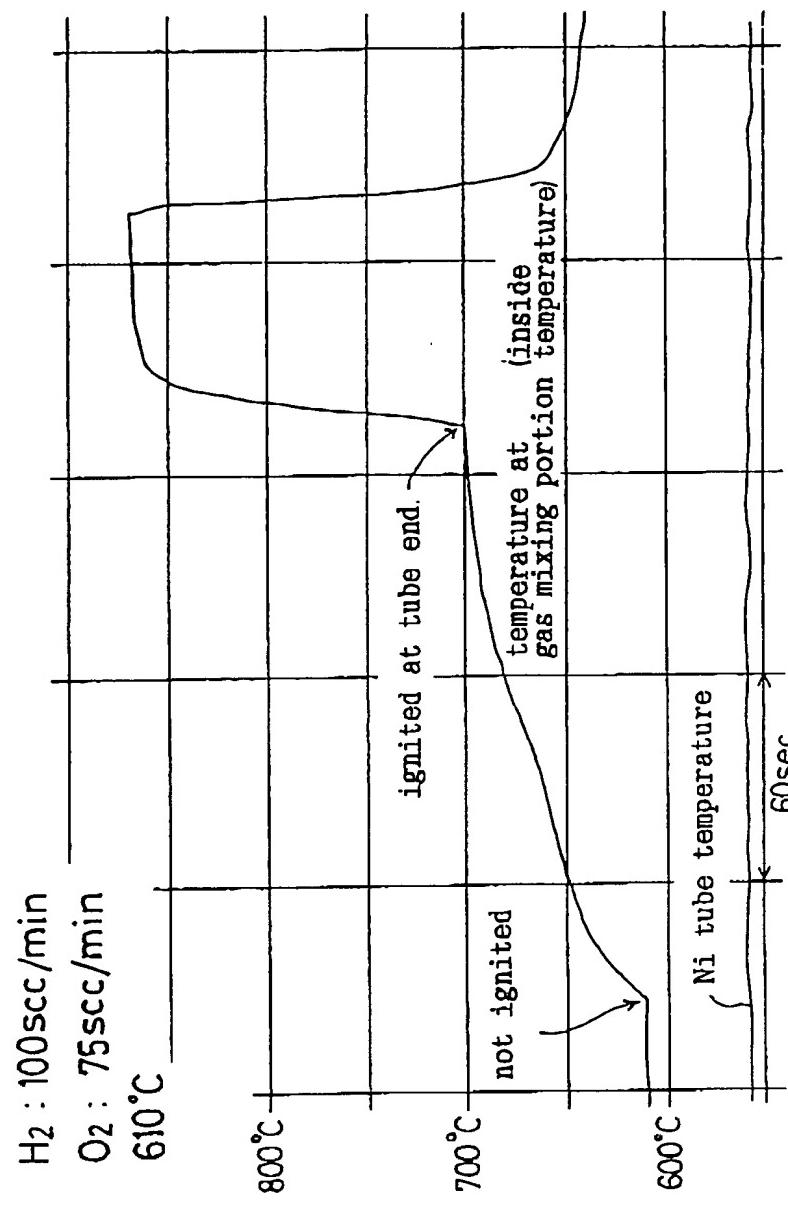




FIG. 33

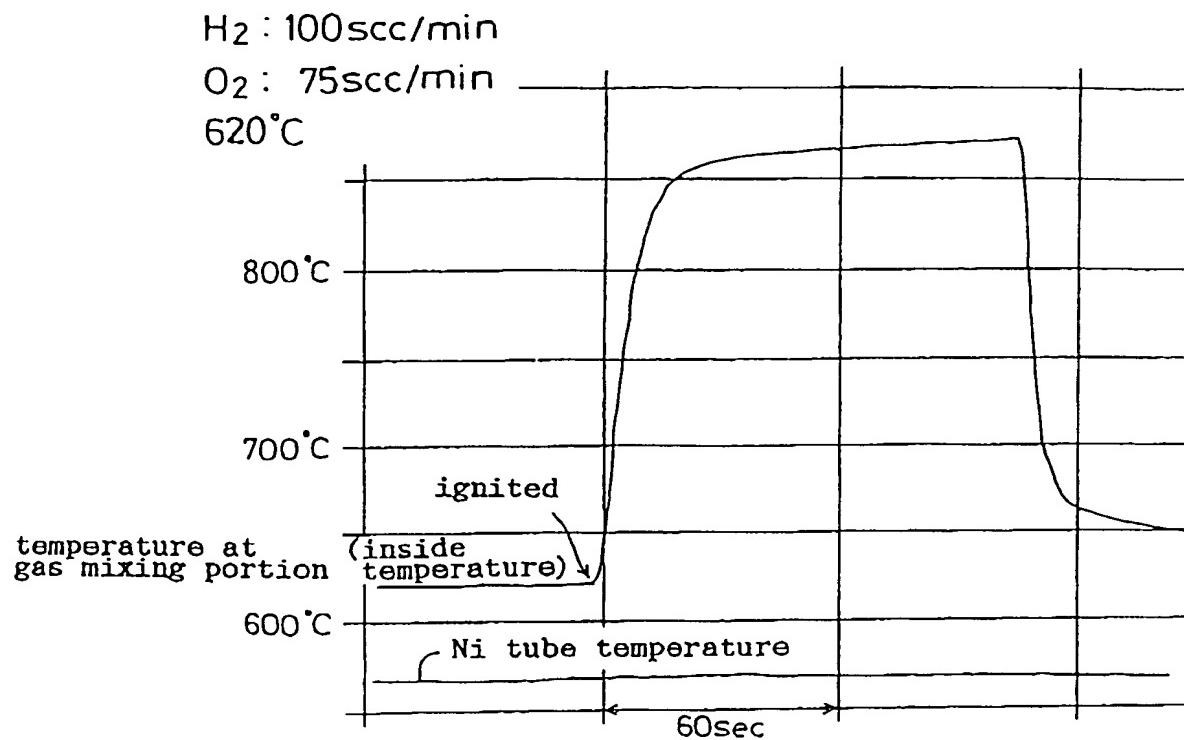


FIG. 34

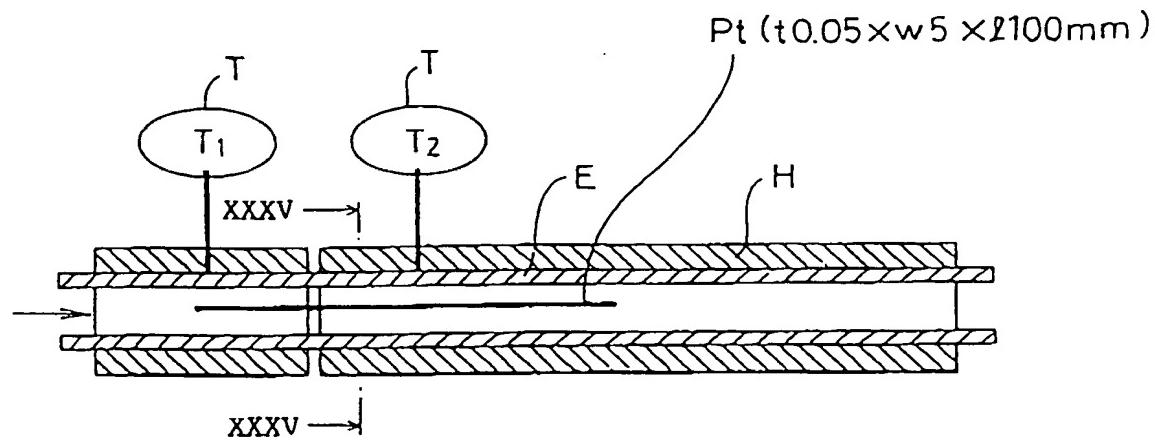




FIG. 35

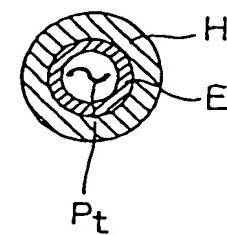


FIG. 36

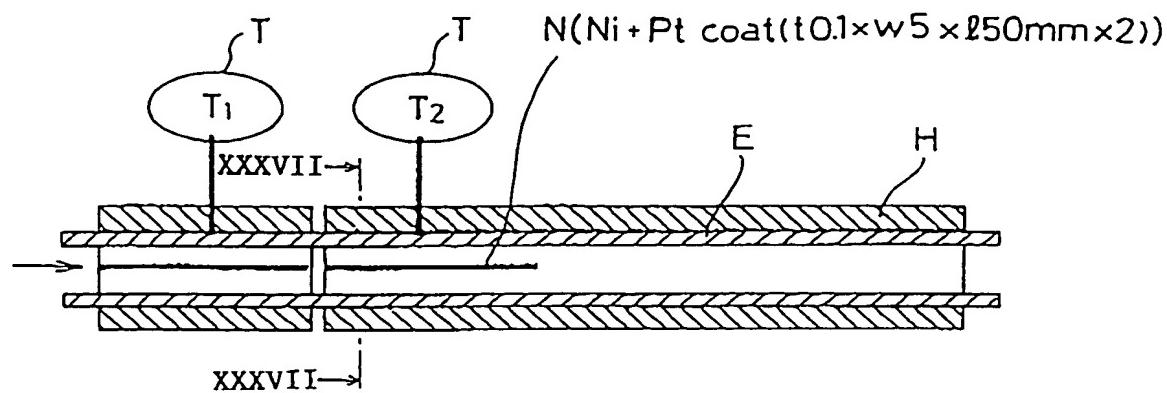


FIG. 37

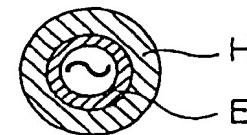




FIG. 38

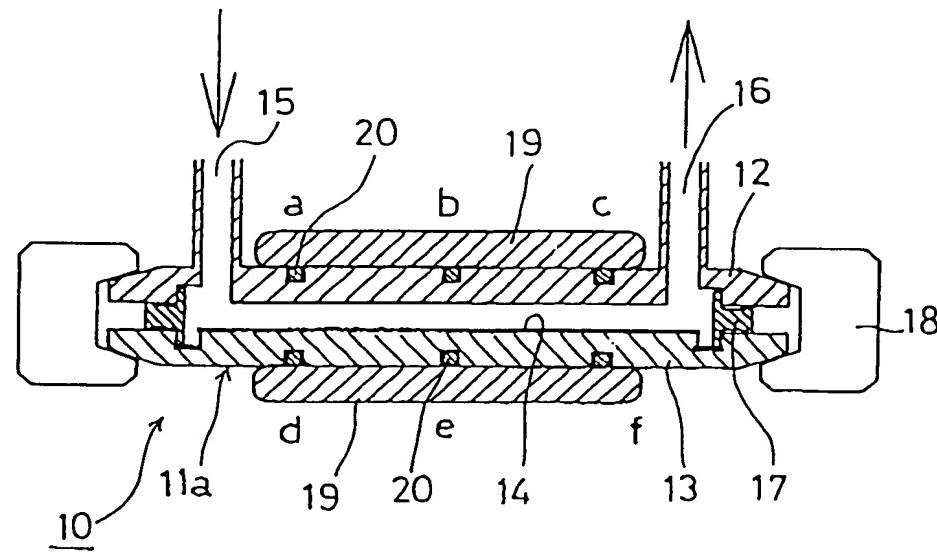


FIG. 39

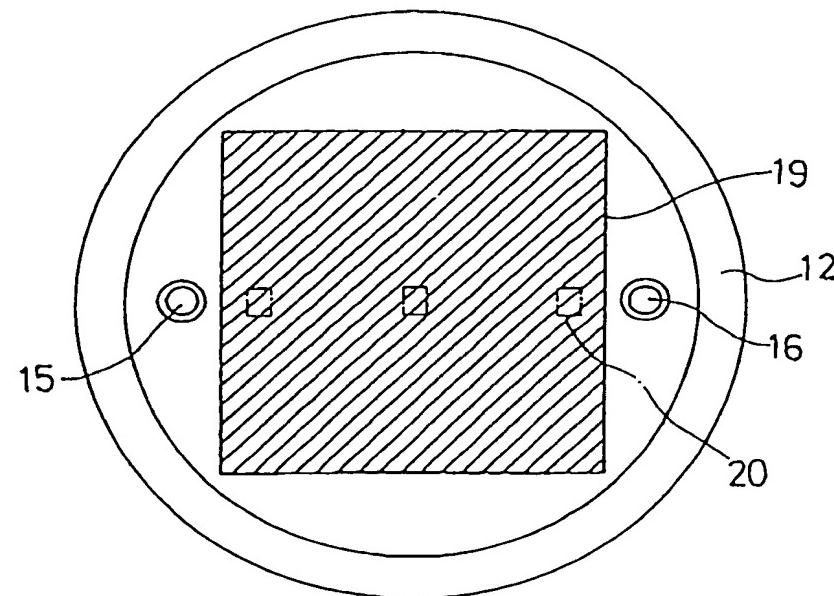




FIG. 40

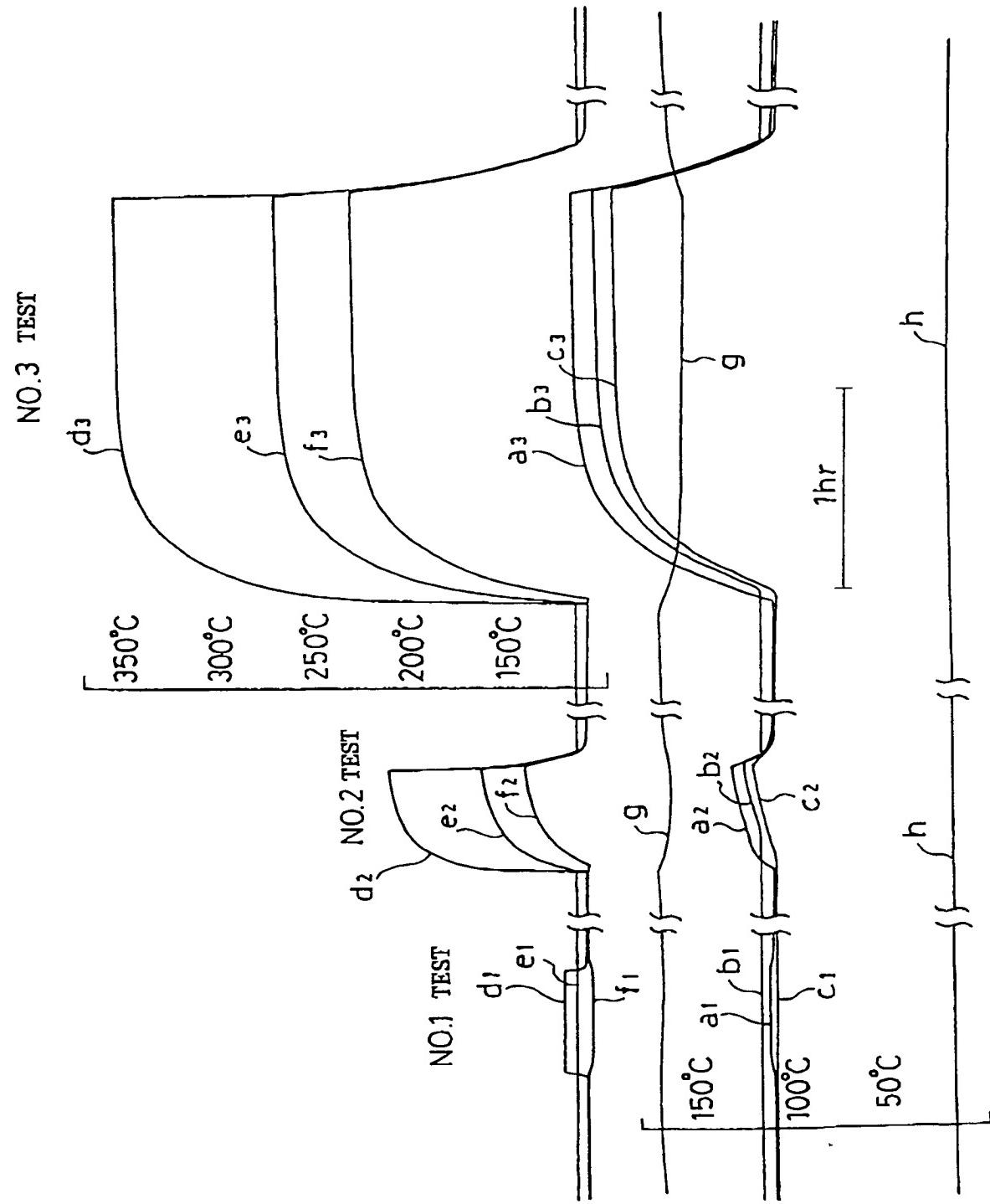




FIG. 41

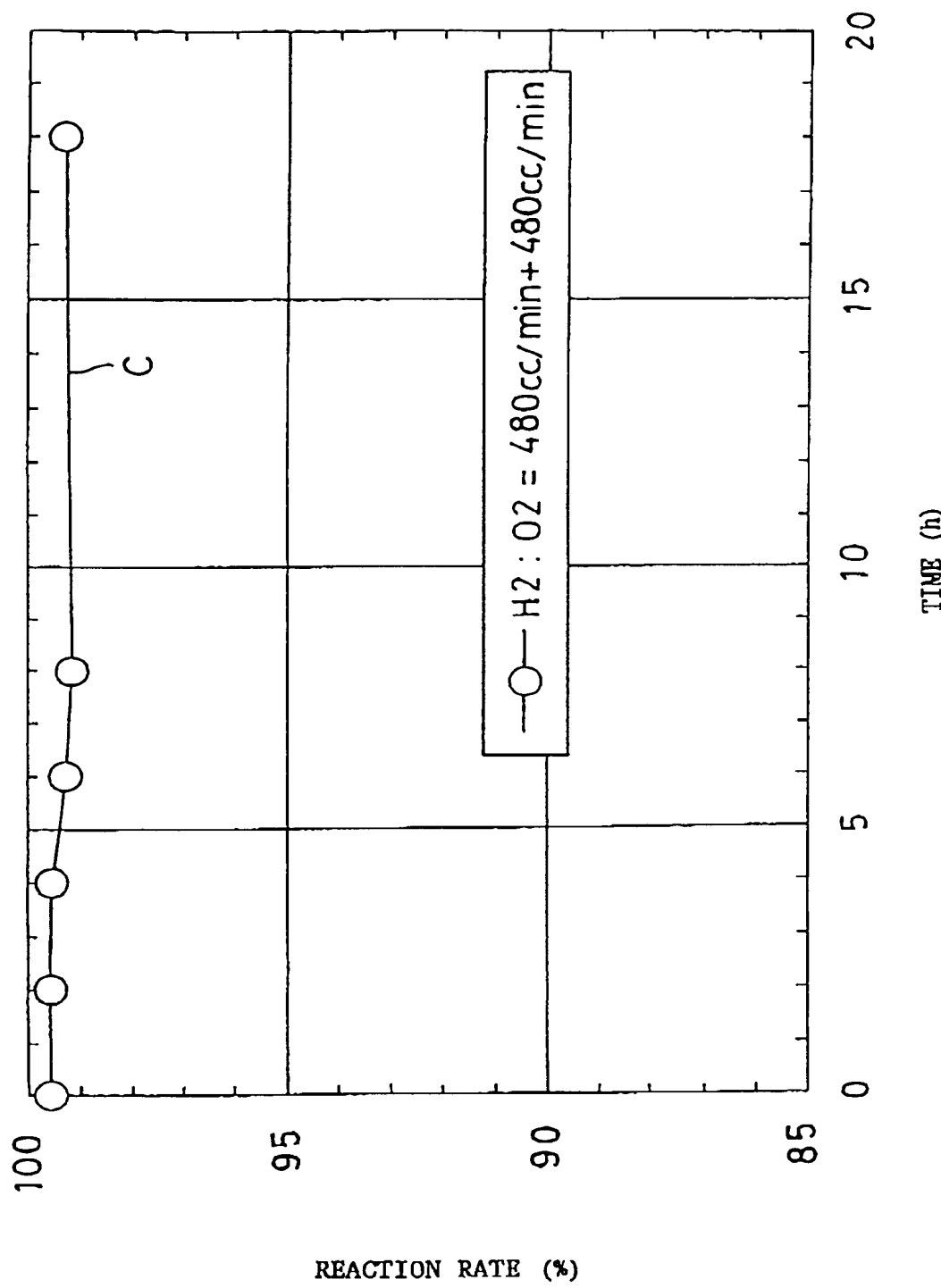




FIG. 42

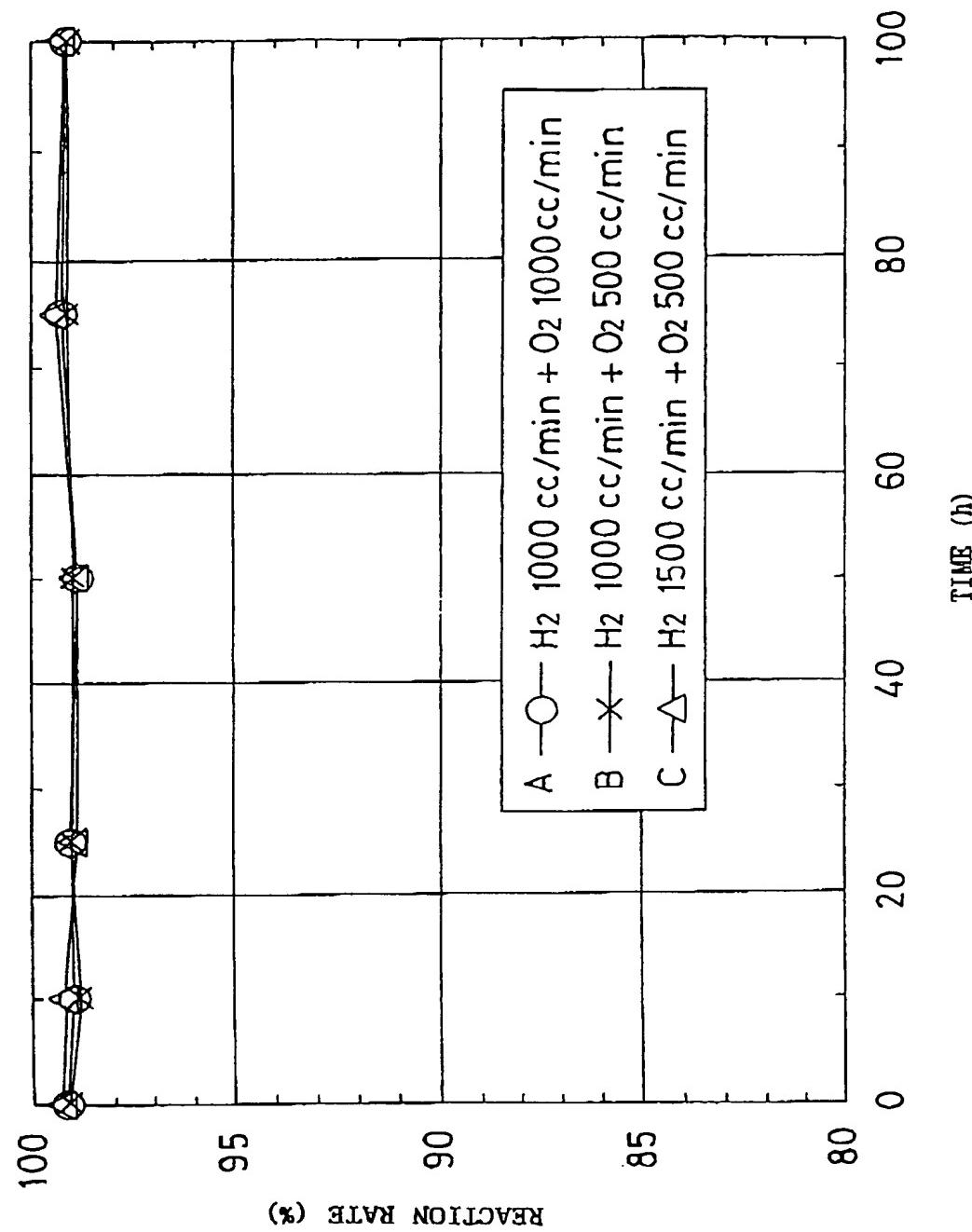




FIG. 43

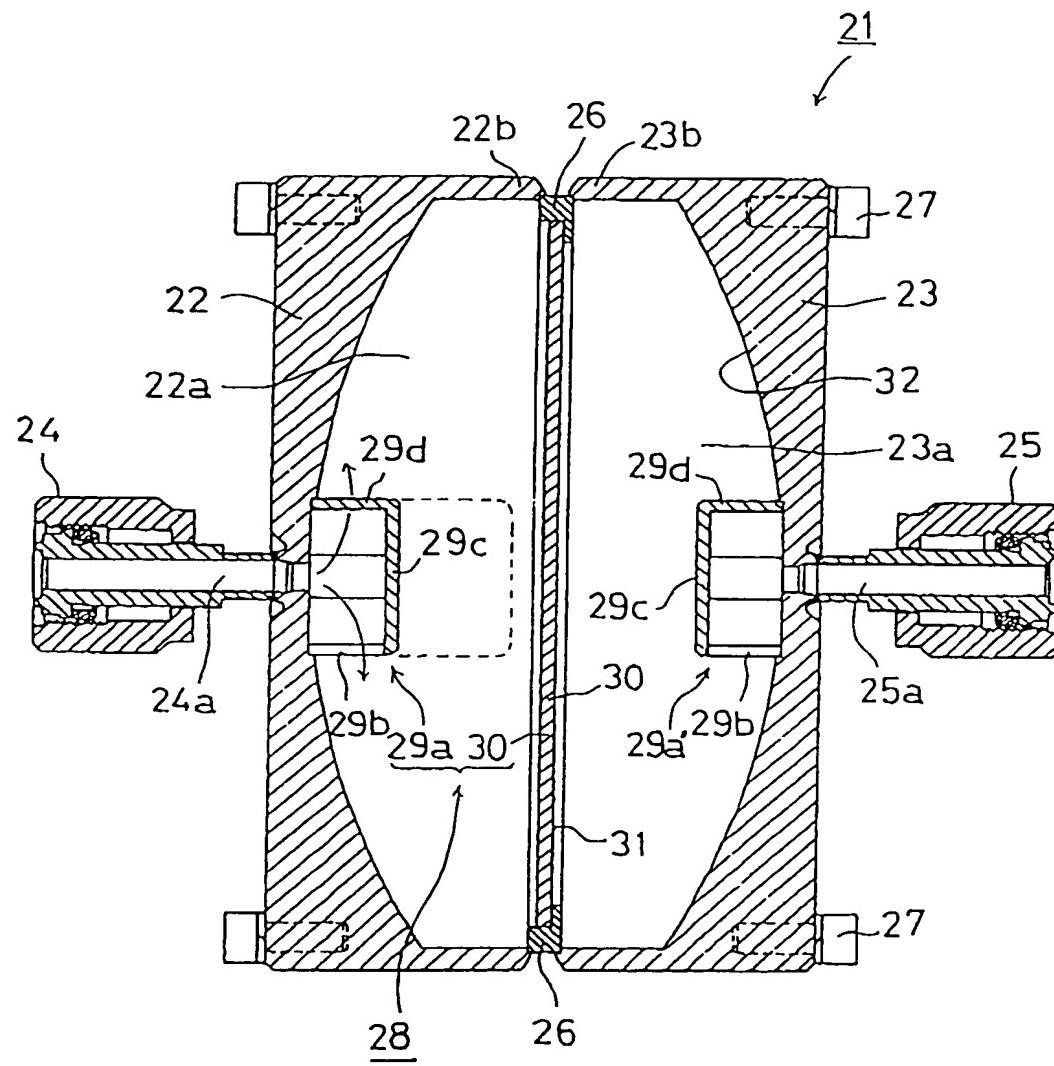




FIG. 44

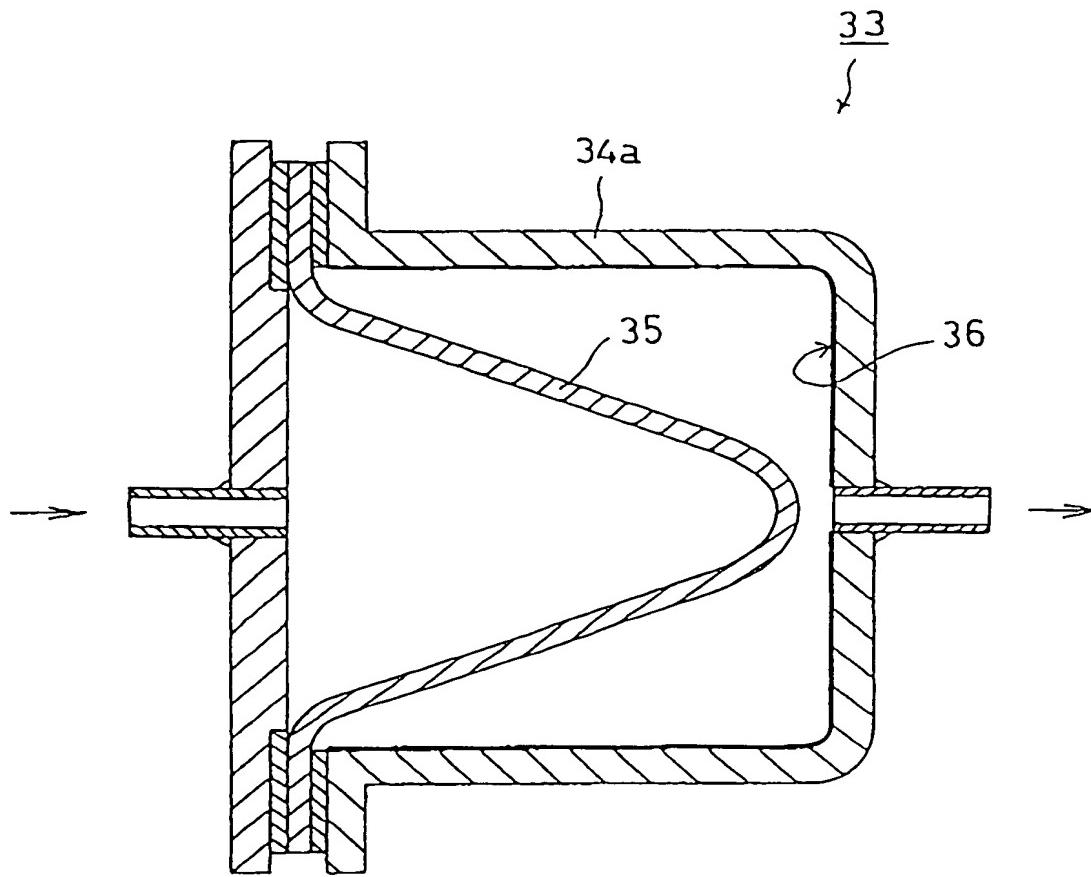




FIG. 45

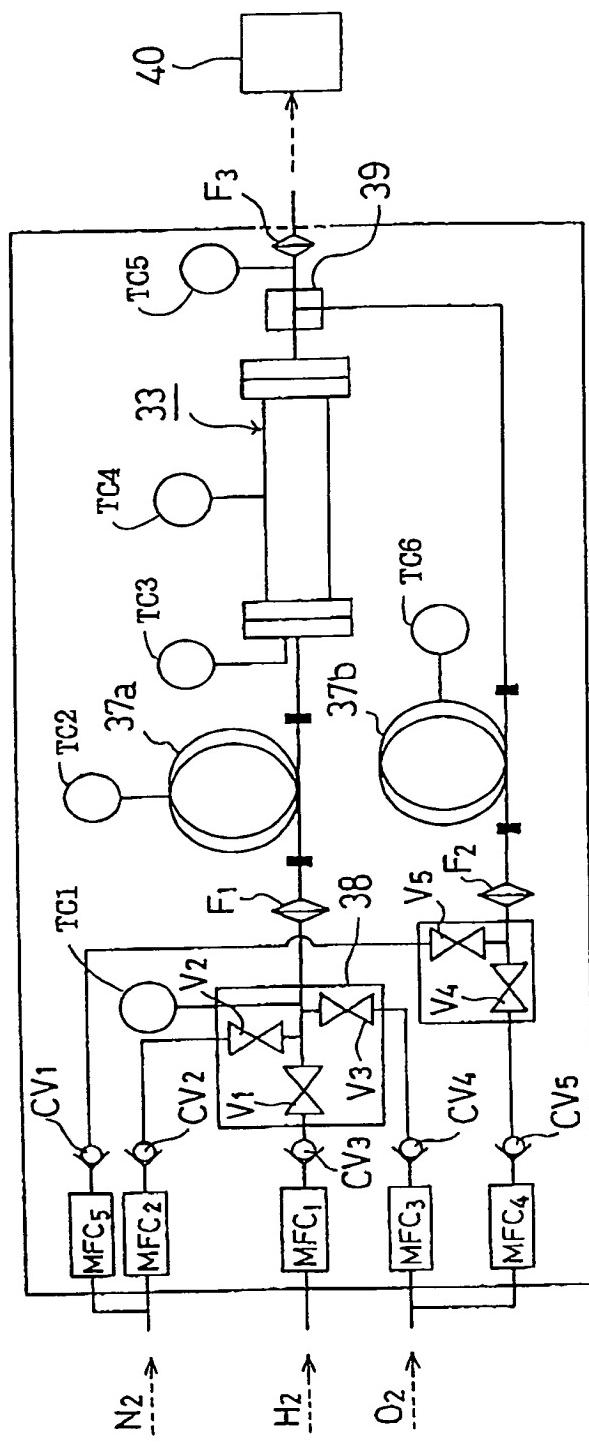




FIG. 46

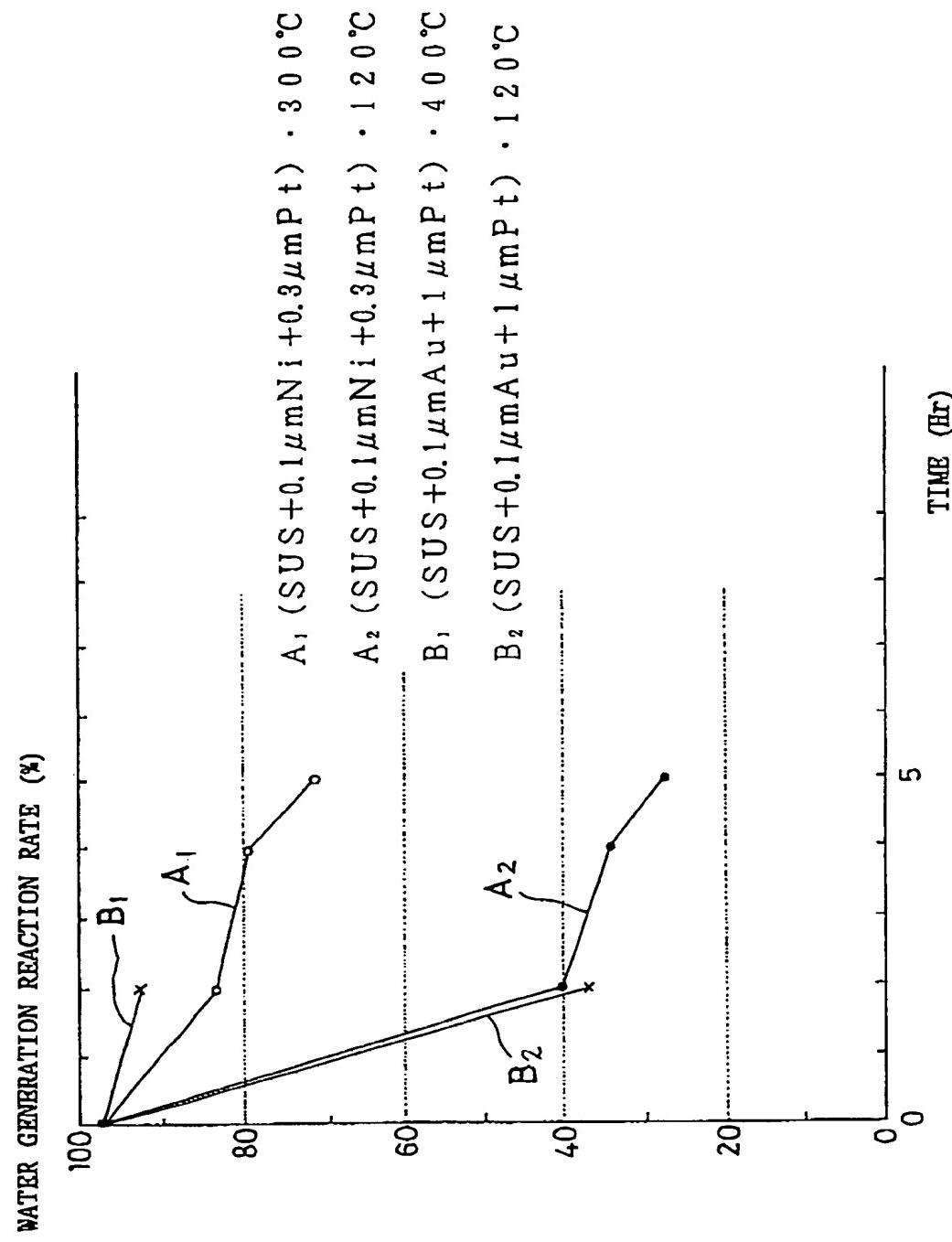




FIG. 47

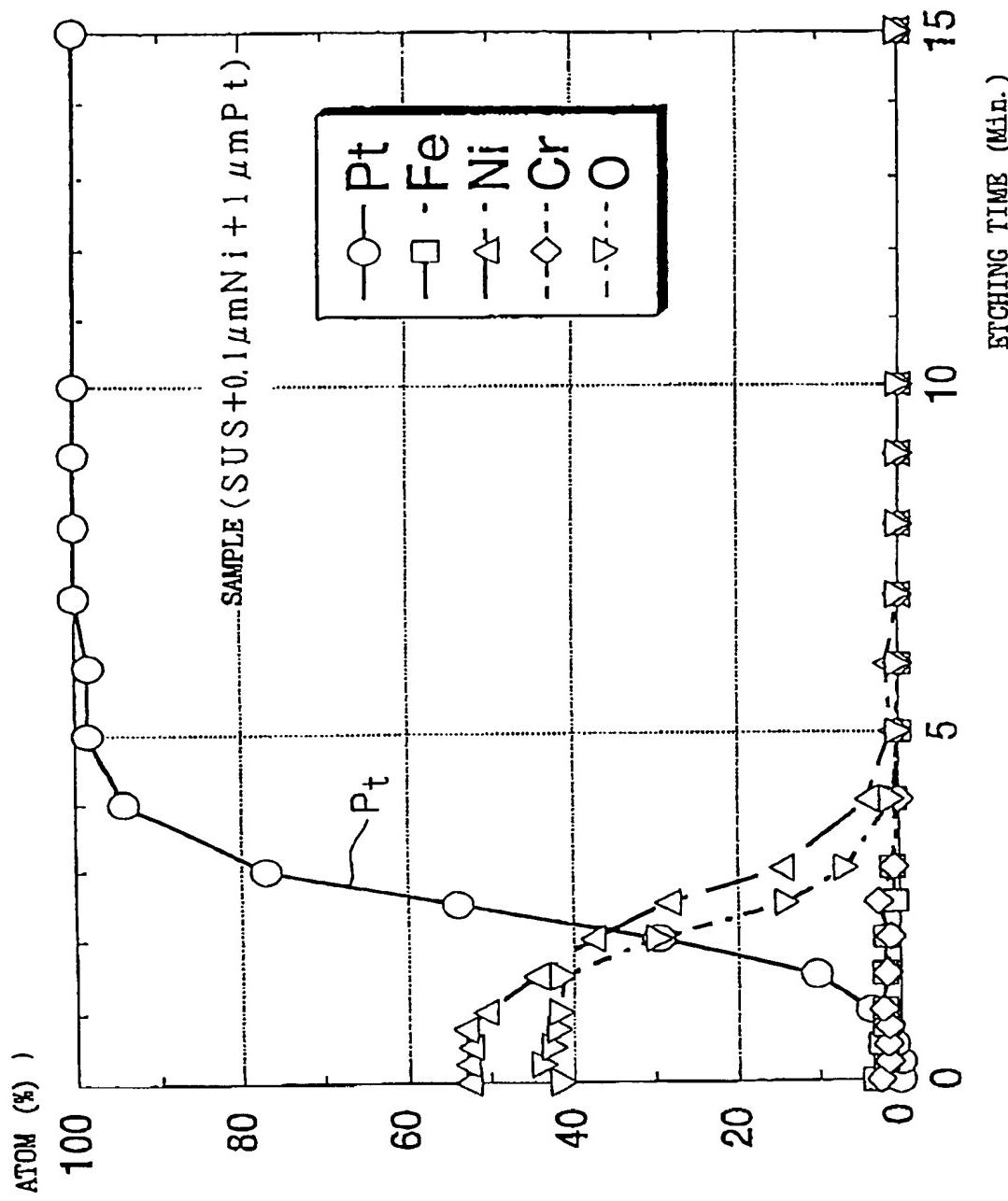




FIG. 48

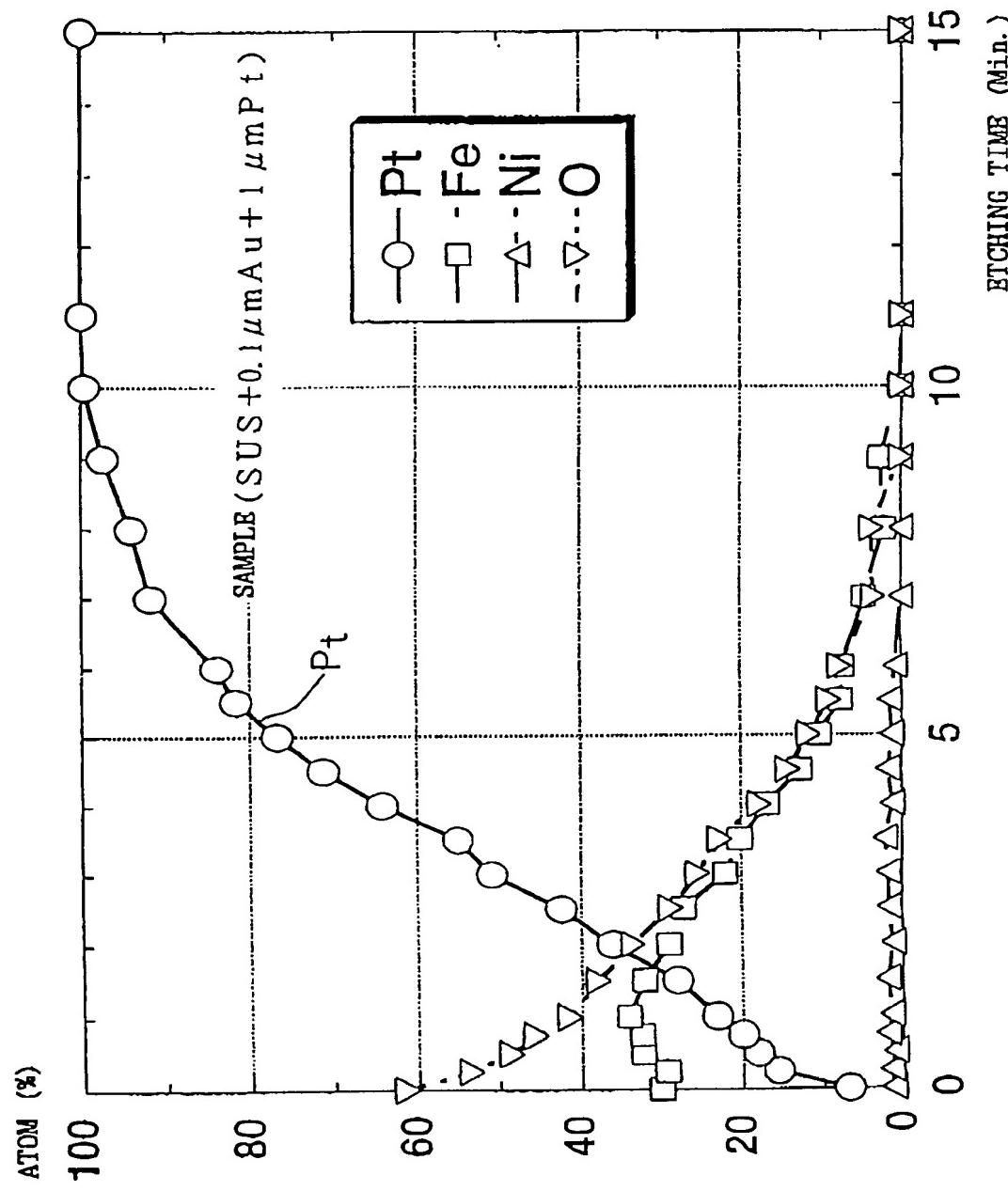




FIG. 49

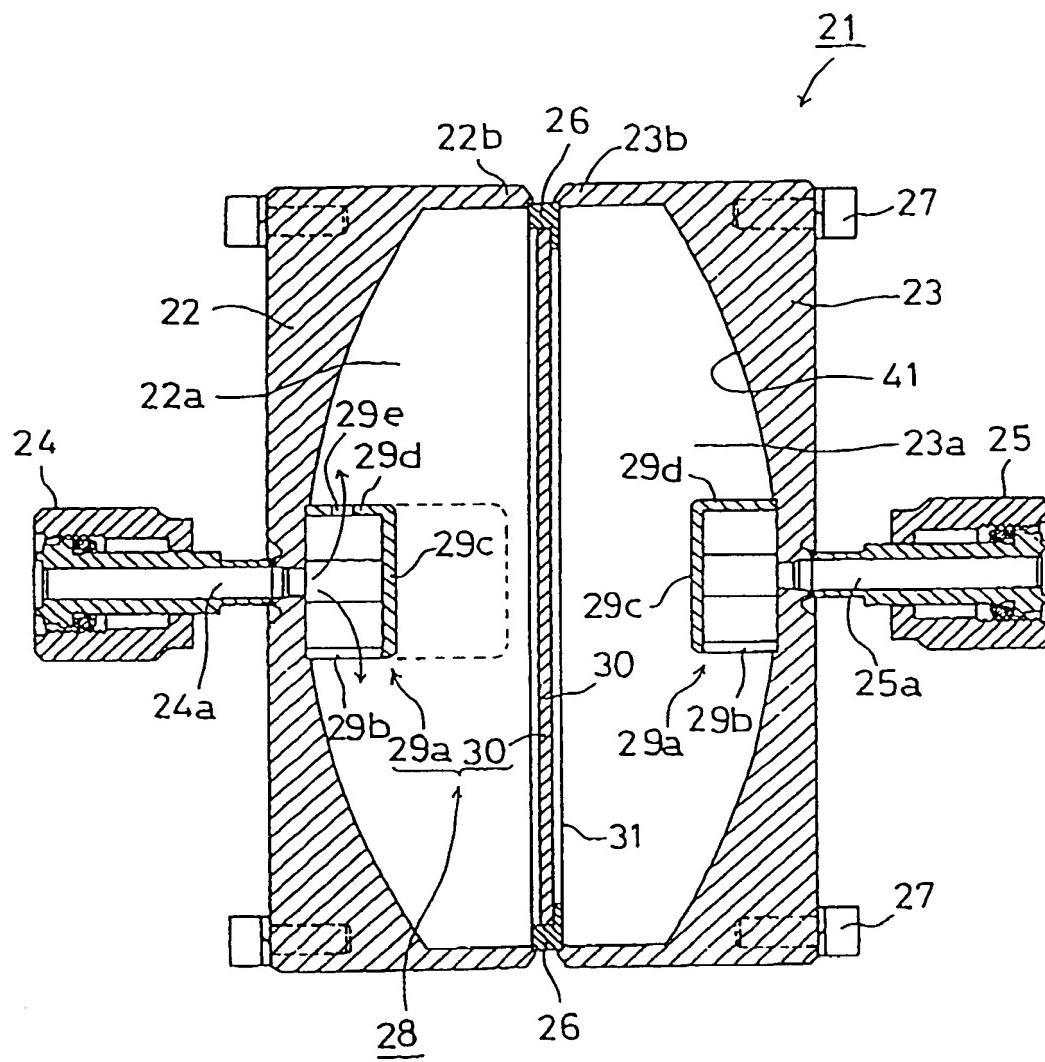
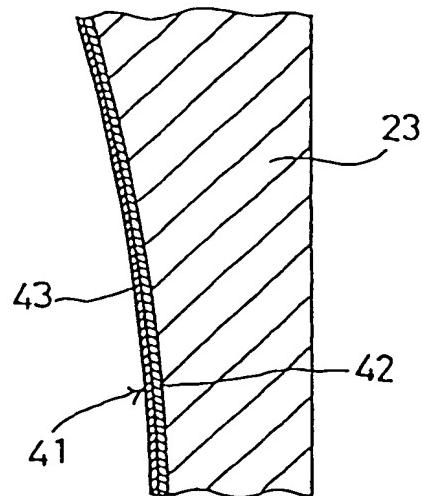




FIG. 50



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FIG. 51

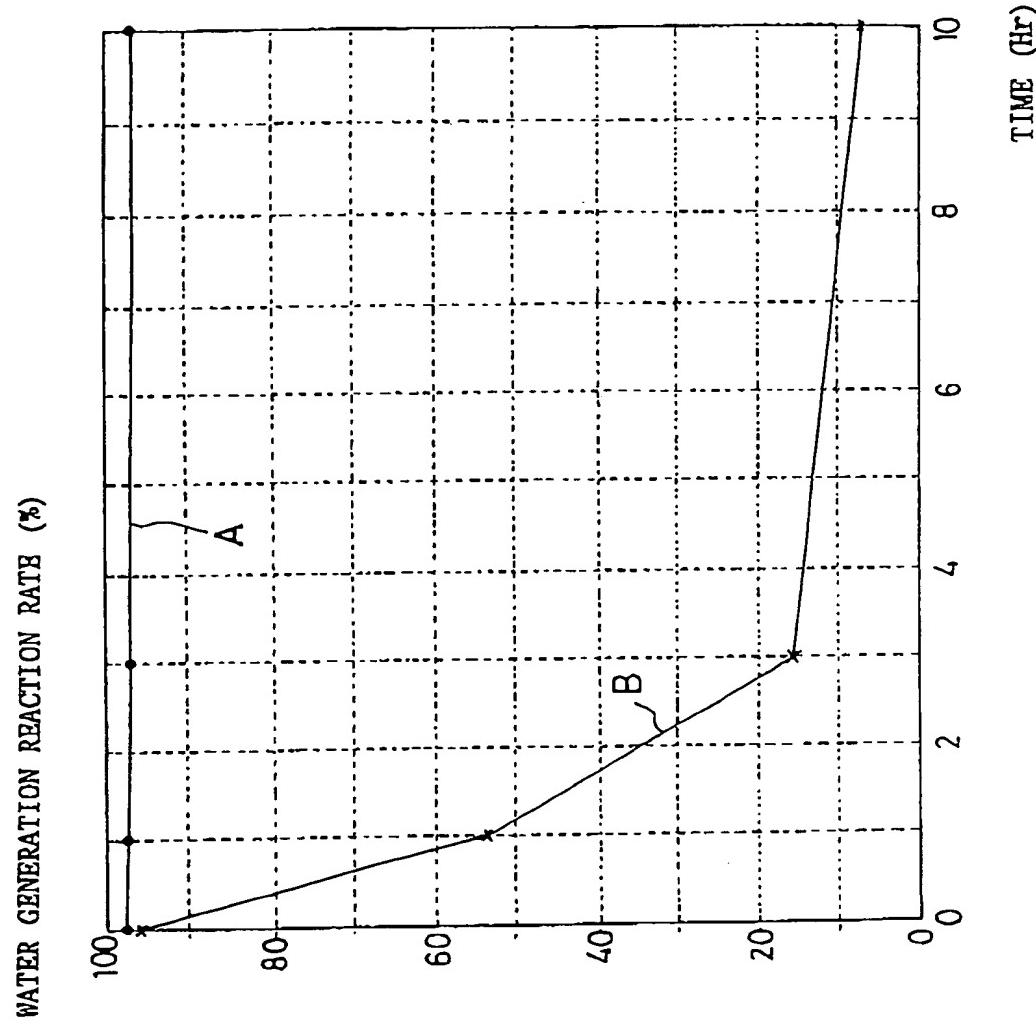




FIG. 52

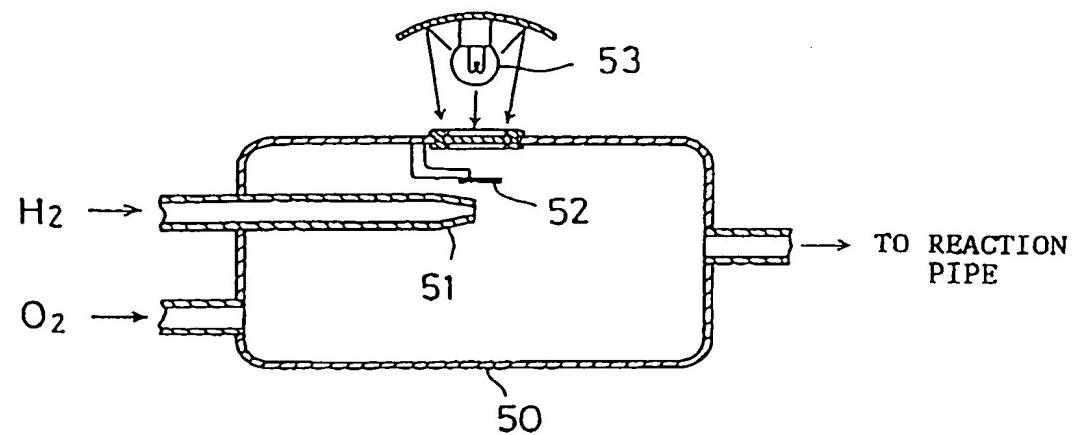


FIG. 53

